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New Zealand

PRODUCT SELECTION GUIDE

PRODUCT SELECTION GUIDE

MasterAir®
Complete solutions for air entrained concrete

MasterBrace®
Solutions for concrete strengthening

MasterCast®
Solutions for the manufactured concrete product industry

MasterCore®
Solutions for cement manufacture

MasterEmaco®
Solutions for concrete repair

MasterFinish®
Solutions for formwork treatment

MasterTop®
Solutions for precision grouting

MasterFiber®
Comprehensive solutions for fiber reinforced concrete

MasterGlenium®
Solutions for hyperplasticized concrete

MasterJet®
Solutions for concrete injection

MasterKem®
Solutions for concrete curing

MasterLife®
Solutions for enhanced durability

MasterMatrix®
Advanced flowability control solutions for self-consolidating concretes

MasterSet®
Solutions for water tight concrete

MasterPolyheed®
Solutions for high performance concrete

MasterPozzolith®
Solutions for water reduced concrete

MasterProtect®
Solutions for concrete protection

MasterRebuild®
Solutions for hyperplasticized concrete

MasterRenov®
Solutions for waterproofing and sealing

MasterRheo®
Solutions for retardation control

MasterSure®
Solutions for workability control

MasterTop®
Solutions for industrial and commercial floors

Master X-Seed®
Advanced accelerator solutions for pre-cast concrete

Ucrete®
Flooring solutions for harsh environments

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BASF
We create chemistry
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<table>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MasterFlow 700</td>
<td>Cementitious general purpose construction grout</td>
</tr>
<tr>
<td>MasterFlow 788</td>
<td>Non-shrink, cementitious grout for underwater applications</td>
</tr>
<tr>
<td>MasterFlow 810</td>
<td>Non-shrink, precision cementitious grout for use in general civil engineering works</td>
</tr>
<tr>
<td>MasterFlow 815</td>
<td>Cementitious high strength non-shrink precision grout for deep pour applications</td>
</tr>
<tr>
<td>MasterFlow 816</td>
<td>Cementitious aggregate free cable grout</td>
</tr>
<tr>
<td>MasterFlow 870</td>
<td>Cementitious high strength non-shrink precision grout</td>
</tr>
<tr>
<td>MasterFlow 4500</td>
<td>Cementitious high strength non-shrink precision grout</td>
</tr>
<tr>
<td>MasterFlow 4600</td>
<td>Cementitious ultra high strength, non-shrink, iron reinforced precision grout</td>
</tr>
<tr>
<td>MasterFlow 9200</td>
<td>Ultra high strength, cement based grout with applied nanotechnology for grouting onshore wind turbine installations</td>
</tr>
<tr>
<td>MasterFlow 9300</td>
<td>Ultra high strength, cement based grout with metallic aggregate and applied nanotechnology for grouting onshore wind turbine installations</td>
</tr>
<tr>
<td>MasterFlow 9500</td>
<td>Ultra high strength, high modulus, cement based grout with applied nanotechnology for grouting offshore wind turbine installations</td>
</tr>
<tr>
<td>MasterFlow 618</td>
<td>Heavy-duty epoxy resin grout</td>
</tr>
<tr>
<td>MasterFlow 628</td>
<td>Multi-purpose epoxy resin grout</td>
</tr>
<tr>
<td>MasterFlow 648</td>
<td>High strength, high temperature, high flow epoxy resin grout</td>
</tr>
<tr>
<td>MasterFlow 678</td>
<td>Deep-pour epoxy resin grout</td>
</tr>
</tbody>
</table>

# Coatings and Impregnants

<table>
<thead>
<tr>
<th>Product Chart</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MasterProtect 150</td>
<td>Elastic architectural acrylic anti-carbonation coating</td>
</tr>
<tr>
<td>MasterProtect 160</td>
<td>Architectural acrylic anti-carbonation coating</td>
</tr>
<tr>
<td>MasterProtect 355</td>
<td>Silane/Siloxane based hydrophobic impregnant</td>
</tr>
<tr>
<td>MasterProtect H 1100</td>
<td>Hydrophobic impregnant based on isobutyltriethoxysilane</td>
</tr>
<tr>
<td>MasterProtect H 1150</td>
<td>Silane based thixotropic paste hydrophobic impregnant</td>
</tr>
<tr>
<td>MasterProtect 8020CI</td>
<td>Surface applied migratory corrosion inhibitor</td>
</tr>
<tr>
<td>MasterProtect 8000CI</td>
<td>Advanced organofunctional silane based corrosion inhibitor</td>
</tr>
<tr>
<td>MasterProtect 1812</td>
<td>Epoxy coating</td>
</tr>
</tbody>
</table>

# Curing Membranes and Release Agents

<table>
<thead>
<tr>
<th>Product Chart</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MasterFinish 380</td>
<td>Surface retarder for horizontal exposed aggregate concrete surfaces</td>
</tr>
<tr>
<td>MasterKure 111</td>
<td>Evaporation retardant and finishing aid for fresh concrete and cementitious materials</td>
</tr>
<tr>
<td>MasterKure 250</td>
<td>Water based hydrocarbon resin curing compound</td>
</tr>
<tr>
<td>MasterKure 402</td>
<td>Solvent based acrylic copolymer curing compound and sealer</td>
</tr>
<tr>
<td>MasterKure 404</td>
<td>Water based acrylic copolymer curing compound and sealer</td>
</tr>
<tr>
<td>MasterFinish RL 211</td>
<td>High quality water based surface consolidation and form release agent</td>
</tr>
<tr>
<td>MasterFinish 222</td>
<td>General purpose form release agent</td>
</tr>
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<td>MasterSeal 615 - Water based, single component, polyurethane modified, Class III membrane</td>
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<tr>
<td>MasterSeal 540 - Two component, cementitious acrylic waterproofing membrane</td>
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</tr>
<tr>
<td>MasterSeal HLM 5100TIX - Water-based, single component, bitumen free, liquid applied waterproofing membrane</td>
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</tr>
<tr>
<td>MasterSeal HLM 5200SL - Water-based, single component, bitumen free, liquid applied waterproofing membrane</td>
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<td>MasterSeal Traffic 1500 MD - Medium duty traffic deck crack-bridging waterproofing system</td>
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</tr>
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<td>MasterSeal Roof 3000 - Liquid applied crack bridging waterproofing membrane</td>
<td>129</td>
</tr>
<tr>
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<td>130</td>
</tr>
<tr>
<td>MasterSeal M 820 - Two component, solvent free polyurethane/polyurea hybrid, spray applied waterproofing membrane</td>
<td>131</td>
</tr>
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</tr>
<tr>
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</tr>
</tbody>
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## Joint Sealants & Treatments

<table>
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<th>Product Chart</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>MasterSeal CR 195 - High performance UV resistant, highly elastic polyurethane joint sealant</td>
<td>136</td>
</tr>
<tr>
<td>MasterSeal CR 435 - High performance chemically resistant polyurea hybrid joint sealant</td>
<td>137</td>
</tr>
<tr>
<td>MasterSeal NP 430 - High performance, UV resistant, highly elastic modified silicon joint sealant</td>
<td>138</td>
</tr>
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<td>MasterSeal 901 - Water swelling resin for crack injection</td>
<td>139</td>
</tr>
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<td>MasterSeal 909 - Re-injectable hose system for construction joints in concrete</td>
<td>140</td>
</tr>
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<td>MasterSeal 910 - Hydroswellign waterbars for joints</td>
<td>141</td>
</tr>
<tr>
<td>MasterSeal 912 - Waterproofing swelling paste</td>
<td>142</td>
</tr>
<tr>
<td>MasterSeal 950/960/970 - Bond breaker, bandage tape &amp; corners</td>
<td>143</td>
</tr>
</tbody>
</table>
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The Construction Chemicals division’s about 5,500 employees form a global community of construction experts. To solve our customers’ specific construction challenges from conception through to completion of a project, we combine our know-how across areas of expertise and regions and draw on the experience gained in countless construction projects worldwide. We leverage global BASF technologies, as well as our in-depth knowledge of local building needs, to develop innovations that help make our customers more successful and drive sustainable construction.

Innovative Construction Technology

BASF has established a world-wide reputation for innovative construction technology based on extensive research and development together with experienced practical advice. In Australia and New Zealand, BASF uses its expertise and experience in tailoring products for local conditions and providing solutions to local problems.

This handbook has been produced to provide information on the range of products manufactured and marketed by BASF Australia and New Zealand. Each section contains product information, general guidelines and aids for product selection. This handbook has been designed to be useful to all involved in the construction industry, including specifiers, end users, contractors and applicators. However, users of this handbook are advised to consult the full technical data sheet of the selected product to ensure that it is fit for the intended purpose.

BASF has experienced sales and technical personnel available in all state offices and New Zealand who will be pleased to discuss solutions to project problems at any time.
Specialty Products: Structural Strengthening

In addition to the products listed in this Selection Guide, BASF markets the MasterBrace strengthening system.

Formerly known as MBrace, the MasterBrace strengthening system incorporates a range of lightweight Fibre Reinforced Polymer composite systems for the external reinforcement of concrete, masonry and timber elements.

For specification assistance, please contact your BASF representative.

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Polymer and Polyurethane Flooring
<table>
<thead>
<tr>
<th>PRODUCT TYPE</th>
<th>CHARACTERISTICS</th>
<th>APPLICATION USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two-pack</td>
<td>Self Smoothing</td>
<td>Internal</td>
</tr>
<tr>
<td>Multi-pack</td>
<td>Coating</td>
<td>Abrasion Resistant</td>
</tr>
<tr>
<td>Coating</td>
<td>Impact Resistant</td>
<td>External</td>
</tr>
<tr>
<td>Topping</td>
<td>Chemical Resistant</td>
<td></td>
</tr>
<tr>
<td>Typical Thickness (mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.2</td>
<td>2</td>
<td>Internal</td>
</tr>
<tr>
<td>2.3</td>
<td>20</td>
<td>Abrasion Resistant</td>
</tr>
<tr>
<td>9</td>
<td>6</td>
<td>Impact Resistant</td>
</tr>
<tr>
<td>5</td>
<td>4</td>
<td>Chemical Resistant</td>
</tr>
<tr>
<td>6.9</td>
<td>3</td>
<td>Anti Static</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>Hygienic</td>
</tr>
<tr>
<td>0.2</td>
<td>2</td>
<td>Slip Resistant</td>
</tr>
<tr>
<td>6-9</td>
<td>3</td>
<td>Damp Substrate</td>
</tr>
<tr>
<td>4</td>
<td>6</td>
<td>Very Low Temp</td>
</tr>
<tr>
<td>1.5-9</td>
<td>10</td>
<td>Drying Curing time at 20°C (hrs)</td>
</tr>
<tr>
<td>6-9</td>
<td>10</td>
<td>Solvent Free</td>
</tr>
<tr>
<td>12</td>
<td>12</td>
<td>Wearing Surfaces</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>Vertical Surfaces</td>
</tr>
<tr>
<td>12</td>
<td>12</td>
<td>Available in colours</td>
</tr>
</tbody>
</table>

*Also available in an anti-static formulation*
MasterEmaco® 2525
Solvent-free epoxy binder and structural adhesive

DESCRIPTION:
MasterEmaco 2525 is a solvent-free, high performance, versatile epoxy resin binder that can be used as a binder to produce a range of epoxy resin based mortars or as a bonding agent or primer. MasterEmaco 2525 can be applied to both dry and damp surfaces and adheres to most substrates after proper preparation.

RECOMMENDED FOR:
- Structural bonding of new to old concrete
- Production of epoxy resin mortars for floor toppings
- Production of epoxy resin mortars to grout bolt holes
- Steel bonding
- Rapid structural repair of concrete
- Grouting dowels
- Priming of concrete floors prior to applying MasterTop Flooring Systems and MasterSeal Membrane Systems to achieve a structural bond.

FEATURES AND BENEFITS:
- Adheres to wet (no standing water) or damp surfaces - wide application area
- Solvent free - low VOC and non-shrink
- Pre-proportioned packaging - no job site errors
- Low viscosity - easy to apply as a primer
- High abrasion and chemical resistance - can be used as a wearing surface
- Approved to AS/NZS 4020:2002 - suitable for contact with potable water
- Cures hard at low temperatures - wide application range

ESTIMATING DATA:

<table>
<thead>
<tr>
<th>For 1 litre of MasterEmaco 2525, add these volumes of F1 filler to achieve the Total Yield</th>
<th>Total Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grout</td>
<td>2 litres</td>
</tr>
<tr>
<td>Flowable Mortar</td>
<td>3 litres</td>
</tr>
<tr>
<td>Mortar</td>
<td>4 litres</td>
</tr>
<tr>
<td>Priming Coverage</td>
<td></td>
</tr>
<tr>
<td>Wet to Dry Bonding Concrete</td>
<td></td>
</tr>
</tbody>
</table>

PACKAGING:
MasterEmaco 2525 is available in 2 and 20 kits, and 205 litre bulk packaging.

<table>
<thead>
<tr>
<th></th>
<th>2 Litre</th>
<th>20 Litre</th>
<th>205 Litre*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comprising:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>1.5 Litre</td>
<td>15 Litre</td>
<td>205 Litre</td>
</tr>
<tr>
<td>Part B</td>
<td>0.5 Litre</td>
<td>5 Litre</td>
<td>205 Litre</td>
</tr>
</tbody>
</table>

* 3 x Part A + 1 x Part B
MasterTop® 1080
Epoxy based durable high build coloured floor coating

DESCRIPTION:
MasterTop 1080 is a durable floor coating based on a high build hard-wear two component epoxy resin system. The cured floor provides excellent resistance to both chemical and mechanical damage. MasterTop 1080 provides a hard, durable and glossy film. MasterTop 1080 may be applied to a wide variety of substrates (concrete, masonry, timber, etc.) and can be coloured to suit the environment.

RECOMMENDED USES:
Floors and as a corrosion resistant coating to most construction materials in:
- Workshops
- Chemical industries
- Pharmaceutical and cosmetic facilities
- Food and drink processing plants
- Electronic and electrical industries
- Mining
- Water and sewerage treatment plants
- Multi-level carparks
- Topcoat for MasterTop 1220, 1230 as required

FEATURES AND BENEFITS:
- Pre-packaged and proportioned
- Wide standard colour range
- Excellent durability
- High resistance to chemical and mechanical attack
- Can be applied to vertical and horizontal substrates
- Long pot life and user friendly mix ratio
- Bonds to damp surfaces
- Enhances work environments
- Non-skid textures for safety
- High aesthetics

ESTIMATING DATA:
Over dense surfaces with texture similar to fine-fine sandpaper or ICRI CSP 2 to 3, the coverage rate is 5m² per litre per coat. On more porous surfaces or in non-skid textures, typical coverage rate is 4m² per litre per coat.
PACKAGING:
MasterTop 1080 is supplied in 20 litre kits:

<table>
<thead>
<tr>
<th>Comprising</th>
<th>20 Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td>8.8 Litre</td>
</tr>
<tr>
<td>Part B</td>
<td>10 Litre</td>
</tr>
<tr>
<td>X1 Colour Pack</td>
<td>4 x 0.6 Litre / 2.4kg</td>
</tr>
</tbody>
</table>

**NOTE:** Where light colours, (yellow/white etc) are required, the addition of two extra X1 colour packs are advised to ensure opacity. A third coat may also be required.
MasterEmaco® T 2040
Rapid setting repair mortar for industrial flooring

DESCRIPTION:
MasterEmaco T 2040 is a fast setting, three-component, screedable patching mortar for floors utilising natural aggregate and binder based on APS polymer technology. It offers excellent resistance against impact, abrasion and scratching as well as chemical attack. MasterEmaco T 2040 is suitable for application temperatures from -25°C to +5°C.

RECOMMENDED FOR:
Fast repairs in:
- food and beverage industry
- cold stores
- freezers
- rapid repairs to concrete slabs
- supermarkets
- airport runways and taxi ways
- roadways
- joint nosings

FEATURES AND BENEFITS:
- Suitable for freezer repairs - applicable at freezing temperatures (-25°C).
- No priming or curing - fast preparation and installation and return to service.
- Non tainting - able to be applied in a working freezer.
- Fast setting - fast return to service.
- Bonds to damp surfaces - suitable for freezer repairs.
- Trafficable - excellent durability in high traffic areas

ESTIMATING DATA:
2.35kg/m² @ 1mm thickness.

PACKAGING:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td>2.4kg</td>
</tr>
<tr>
<td>Part B</td>
<td>0.4kg</td>
</tr>
<tr>
<td>Part C</td>
<td>22.5kg = 25.3 Kit (10.76 Litres)</td>
</tr>
</tbody>
</table>
Ucrete®

High performance polyurethane cement resin flooring system

DESCRIPTION:
Ucrete is a family of Polyurethane cement resin technology with exceptional resistance to aggressive chemicals, heavy impact and temperatures up to 120°C.

Ucrete offers a range products with differing surface profiles, temperature resistances and impact resistance to allow the designer to choose the floor that meets the challenges in each specific facility to provide a safe and attractive working environment

RECOMMENDED FOR:
Ucrete is recommended for:

- Textile and film plants
- Food and beverage production
- Meat processing and abattoirs
- Warehousing and storage facilities
- Electronic component manufacture and assembly
- Pharmaceutical production
- Chemical plants

FEATURES AND BENEFITS:
- Expert Application - installed only by trained and approved specialist contractors.
- Fast Application - can be applied to 6-day-old concrete and 2-day-old polymer screeds.
- Short curing time - with 8-hour access to foot traffic and 24 hours for vehicles.
- Hygienic/Safe - non-tainting, non-dusting, monolithic (minimum joints); easy to maintain; microbiologically inert.
- Durable/Long-Life - wide chemical resistance; wear and impact resistant; resists temperatures from -40°C to 120°C; many years of international use.
- Pre-packed - pre-weighed / pre-packed for immediate use; batch-to-batch colour matched for consistency
- Non-tainting - solvent free and non-tainting (HACCP approved material) as tested by the Campden & Chorleywood Food Research Association.
- Colours - Red, Green, Grey, Cream and Curtain Call.

The Ucrete family consists of:
- Ucrete DP - defined profile slip resistant floor for wet processing areas
- Ucrete UD200 - slip resistant screed for fast one-coat application
- Ucrete MF - smooth chemically resistant floor for dry process areas
- Ucrete IF - iron filled slip resistant floor screed for heavy impact and chemical load areas such as tracked vehicle workshops and waste transfer stations
Ucrete® DP

Heavy-duty non-slip polyurethane hybrid flooring system

DESCRIPTION:
Ucrete DP has a unique heavy duty Polyurethane hybrid technology with exceptional resistance to aggressive chemicals, heavy impact and temperatures from -25°C up to 130°C.
Ucrete DP is a family of products with defined surface profiles suitable for applications in wet and dry process environments.
Ucrete DP is broadcast with BASF Fillers to increase surface texture and slip resistance. It is typically installed at 6, 9 & 12 mm thick.
It is dense and impervious, providing an ideal floor finish for applications in the food and beverage, pharmaceutical and chemical industries and wherever a robust long lived floor is required.

RECOMMENDED FOR:
Ucrete DP is recommended for conditions requiring maximum chemical resistance and a slip-resistant surface:

- Textile and film plants, warehousing and storage facilities
- Food and beverage production
- Warehousing and storage
- Confectionery production
- Electronic component manufacture and assembly
- Pharmaceutical production
- Chemical plants

The extremely robust aggregates used to provide the texture of Ucrete DP are designed to maintain optimum slip resistance for many years. Where there is heavy hard wheeled traffic it is recommended that Ucrete DP 30 is used.

COLOURS:
Red, Green, Grey, Cream and Curtain Call

ESTIMATING DATA:
Refer to technical data sheet or application guide.
PACKAGING:

Ucrete DP is supplied in components with the following packaging weights (kg):

<table>
<thead>
<tr>
<th></th>
<th>BC4/MF</th>
<th>BC6</th>
<th>BC9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ucrete DP Part 1</td>
<td>2.52</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ucrete DP Part 2</td>
<td>2.86</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ucrete DP Part 3</td>
<td>14.4</td>
<td>17.3</td>
<td>21.0</td>
</tr>
<tr>
<td>Ucrete Liquid Pigment</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Ucrete DP Topcoat Part 1</td>
<td>0.77</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ucrete DP Topcoat Part 2</td>
<td>1.09</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ucrete DP Topcoat Part 3</td>
<td>1.36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ucrete Liquid Pigment</td>
<td>0.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Ucrete® MF
Medium-duty polyurethane hybrid flooring system

DESCRIPTION:
Ucrete MF is a single layer, seamless, solvent-free, polyurethane flooring system with a smooth matt surface finish. It has high impact resistance and withstands abrasive wear and a wide spectrum of chemicals.

RECOMMENDED FOR:
Ucrete MF is recommended for conditions requiring the maximum chemical resistance and where a smooth, even and easy to clean surface is required.

- Textile and film plants
- Food and beverage production
- Warehousing and storage
- Confectionery production
- Electronic component manufacture and assembly
- Pharmaceutical production
- Chemical plants

COLOURS:
Red, Green, Grey, Cream and Curtain Call

ESTIMATING DATA:
Refer to technical data sheet or application guide.

PACKAGING:
Ucrete MF is supplied in units for immediate use, consisting of:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 1</td>
<td>2.52kg</td>
</tr>
<tr>
<td>Part 2</td>
<td>2.86kg</td>
</tr>
<tr>
<td>Part 3</td>
<td>14.4kg</td>
</tr>
<tr>
<td>Part 4 Pigment</td>
<td>0.5kg</td>
</tr>
</tbody>
</table>
Ucrete® UD200
Heavy-duty polyurethane hybrid flooring system

DESCRIPTION:
Ucrete UD200 is a single layer, seamless, solvent-free, polyurethane flooring system. It has a textured matt finish possessing excellent chemical resistance; withstands abrasive wear; has high impact resistance and withstands direct steam impact.

RECOMMENDED FOR:
Ucrete UD200 is recommended for conditions requiring maximum chemical resistance, slip resistance and cleanability, especially in extreme temperature environments. Specific applications include:

- Meat, fish and poultry processing
- Food and beverage production
- Dairies, cheese and milk products
- Commercial and industrial kitchens
- Cold rooms, chillers and freezers
- Pharmaceutical production
- Chemical plants

COLOURS:
Red, Green, Grey, Cream and Curtain Call

ESTIMATING DATA:
Refer to technical data sheet or application guide.

PACKAGING:
Ucrete UD200 is supplied as complete units for immediate use, consisting of:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 1</td>
<td>2.52kg</td>
</tr>
<tr>
<td>Part 2</td>
<td>2.86kg</td>
</tr>
<tr>
<td>Part 3</td>
<td>23.6kg</td>
</tr>
<tr>
<td>Part 4 Pigment</td>
<td>0.5kg</td>
</tr>
</tbody>
</table>
Ucrete® IF
Iron aggregate heavy duty polyurethane hybrid flooring system

DESCRIPTION:
Ucrete IF provides an extremely tough resurfacing for environments subject to extreme impact and abrasion.
Its dense and impervious iron-armoured surface provides protection against severe abrasion making it the ideal floor finish for applications in the waste management, heavy engineering and manufacturing industries and wherever a robust long-lived floor is required.

RECOMMENDED FOR:
Ucrete IF is used to protect horizontal surfaces including:
- Waste transfer stations
- Transition strips
- Heavy engineering workshops
- Heavy process areas
- Under mixing heads
- Storage bunkers
- Loading docks
- Heavy equipment maintenance facilities

Ucrete IF is suitable for use where trafficked by racking with hot steel wheeled racks and bins, for example upon their removal from ovens or autoclaves.

COLOURS:
Red, Green, Grey, Cream and Curtain Call

ESTIMATING DATA:
Coverage 9mm: 28kg/m²

PACKAGING:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ucrete IF Part 1</td>
<td>2.52kg</td>
</tr>
<tr>
<td>Ucrete IF Part 2</td>
<td>2.86kg</td>
</tr>
<tr>
<td>Ucrete IF Part 3</td>
<td>15.6kg</td>
</tr>
<tr>
<td>Ucrete IF Part 4 (Pigment)</td>
<td>0.5kg</td>
</tr>
<tr>
<td>Ucrete IF Part 5</td>
<td>12.5kg</td>
</tr>
</tbody>
</table>
MasterTop® 1220
Epoxy based coloured slip resistant flooring system

DESCRIPTION:
MasterTop 1220 is a slip resistant, seamless, industrial flooring system based on an advanced solvent free epoxy resin system and selected graded aggregates. The degree of slip resistance can be adjusted to suit a wide variety of conditions and cleaning requirements. The cured floor provides excellent resistance to both chemical and mechanical attack.

RECOMMENDED FOR:
- Safety non slip internally & externally
- Food and beverage industry
- Chemical, cosmetics and pharmaceutical industries
- General production and packing areas
- Commercial and industrial kitchens
- Wet process and washdown areas
- Automotive, aircraft and engineering facilities

FEATURES AND BENEFITS:
- Pre-packaged and proportioned
- Wide colour range
- Excellent slip resistance and durability
- High resistance to chemical & mechanical attack
- Flat, trowel mark free surface
- Seamless and jointless
- Hygienic surface

ESTIMATING DATA:
MasterTop Part A Resin + MasterTop B1 Hardener + X1 colour pack = 9.5 litres + F1 Filler Sand = 15.5 litres. Thickness for base coat is 1.5mm therefore kit covers 10.33m². F5 Broad cast sand is 4kg (2.45 L dry) per m². Top coat coverage is 4-2m² per litre if applied by roller or 2.5-1m² per litre if applied by flat trowel or squeegee. Coverage rate will be similar for MasterTop 1080 and MasterTop 1200 Parts A & B and X1.

PACKAGING:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>MasterTop 1200 Part A</td>
<td>9.4kg</td>
<td>6.2L</td>
</tr>
<tr>
<td>MasterTop 1200 Part B</td>
<td>3kg</td>
<td>3L</td>
</tr>
<tr>
<td>MasterTop X1</td>
<td>0.6kg</td>
<td>0.3L</td>
</tr>
<tr>
<td><strong>Total Yield</strong></td>
<td></td>
<td>9.5L</td>
</tr>
<tr>
<td>MasterTop Filler F1</td>
<td>15kg</td>
<td>9.75L</td>
</tr>
<tr>
<td>MasterTop Filler F5</td>
<td>25kg</td>
<td>16.25L</td>
</tr>
</tbody>
</table>
MasterTop® 1230
Epoxy based coloured seamless self-smoothing architectural flooring system

DESCRIPTION:
MasterTop 1230 is a seamless, self-smoothing architectural flooring system based on an advanced solvent free epoxy resin system and selected graded aggregate. The smooth impervious surface finish provides an easily cleaned and hygienic surface with excellent resistance to chemical and mechanical attack.

RECOMMENDED FOR:
- Pharmaceutical and cosmetic industries
- Laboratory areas
- Medical facilities
- Clean rooms and other sterile areas
- Showrooms
- De-contaminable areas
- T.V. studios
- Warehouses and high rack storage
- Laundries

FEATURES AND BENEFITS:
- Pre-packaged and proportioned - no job site errors
- Wide colour range - able to personalize an installation
- Excellent durability - long service life
- Easily cleaned - low maintenance cost
- De-contaminable - bacteria able to be removed
- High resistance to chemical and mechanical attack - able to use in a wide range of applications
- Seamless and jointless - no places for bacteria to hide

ESTIMATING DATA:
MasterTop 1200 Part A + MasterTop 1200 Part B + X1 Colour Pack + 10kg F11 Filler = 13.5 Litres
2mm Thickness = 6.75m² per kit

PACKAGING:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>MasterTop 1200 Part A</td>
<td>9.4kg</td>
<td>6.2L</td>
</tr>
<tr>
<td>MasterTop 1200 Part B</td>
<td>3kg</td>
<td>3L</td>
</tr>
<tr>
<td>X1 Colour Pack</td>
<td>0.6kg</td>
<td>0.3L</td>
</tr>
<tr>
<td>Total Yield</td>
<td></td>
<td>9.5L</td>
</tr>
<tr>
<td>MasterTop F11 Filler</td>
<td>10kg</td>
<td>6.25L dry</td>
</tr>
</tbody>
</table>
MasterTop® 1260
Durable coloured floor coating

DESCRIPTION:
MasterTop 1260 is a durable floor coating based on a hard wearing, two-component polyaspartic resin system. The cured floor provides excellent resistance to both chemical and mechanical damage. MasterTop 1260 has a user-friendly mix ratio and pot life and provides a hard, durable and glossy film. MasterTop 1260 may be applied to a wide variety of substrates (concrete, masonry, timber etc) and can be coloured to suit the environment.

RECOMMENDED FOR:
MasterTop 1260 is recommended for Floors and as a corrosion resistant coating to most construction materials in:

- Workshops
- Chemical industries
- Pharmaceutical and cosmetic facilities
- Food and drink processing plants
- Electronic and electrical industries
- Mining industries
- Water and sewerage treatment plants
- Warehouses
- Multi-level carparks
- Topcoat for MasterSeal Traffic and Roof Systems, as required

FEATURES AND BENEFITS:

- Simple mix ratio - easy to break down kits for convenient application.
- Excellent durability - suitable for forklift traffic
- High resistance to chemical and mechanical attack - suitable for chemical industries
- Thixotropic - can be applied to vertical and horizontal substrates.
- Gloss finish - enhances work environments and is easy to clean.
- Non-skid textures available - reducing potential for accidents.
- Fast curing - able to do two coats in one day and mechanical resistance is obtained after 3 days @ 23°C.

ESTIMATING DATA:
Over dense surfaces with texture similar to fine-medium sandpaper, the coverage rate is 10-12m² per litre per coat. On more porous surfaces or in non-skid textures, typical coverage rate is 9-11m² per litre per coat.

PACKAGING:
MasterTop 1260 is supplied in 8 litre kits comprising:

Part A: 4 litres
Part B: 4 litres
MasterTop® 1288
Epoxy based coloured seamless self-smoothing fast return to service flooring system

DESCRIPTION:
MasterTop 1288 is a seamless, self-smoothing fast return to service flooring system based on an advanced solvent free epoxy resin system and selected graded aggregates. The MasterTop 1288 can be applied as a smooth glossy surface or a non-slip rough surface depending on the needs of the client. The smooth impervious surface finish provides an easily cleaned and hygienic surface with excellent resistance to chemical and mechanical attack. The non-skid surface provides a safe surface for wet process areas with excellent resistance to chemical and mechanical attack.

RECOMMENDED FOR:
• Smooth
  - Pharmaceutical and cosmetic industries
  - Laboratory areas
  - Medical facilities
  - Clean rooms and other sterile areas
  - Decontamination areas, cleaning stations
  - Showrooms and T.V. Studios
  - High rack storage
• Non Slip
  - Warehouses and servicing areas
  - Laundries
  - Food preparation areas

FEATURES AND BENEFITS:
• Fast return to service - full mechanical and chemical resistance in 24 hours
• Pre-packaged and proportioned - no site errors
• Wide colour range - Highly aesthetic finishes available
• Excellent durability - very high mechanical strengths
• Seamless and jointless - Easily cleaned and decontaminable
• Suitable for many industries - High resistance to chemical and mechanical attack

ESTIMATING DATA:
MasterTop BC 388 Part A + MasterTop BC388 Part B + X1 Colour Pack + 4.2kg F1 Filler (30%) = 11.5 Litres.

Refer to datasheet for build ups and yields for various system build ups.
### PACKAGING:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>MasterTop P 688 Part A</td>
<td>10kg</td>
<td></td>
</tr>
<tr>
<td>MasterTop P 688 Part B</td>
<td>4kg</td>
<td></td>
</tr>
<tr>
<td><strong>Total Yield (primer)</strong></td>
<td></td>
<td>13L</td>
</tr>
<tr>
<td>MasterTop BC 388 Resin</td>
<td>10.5kg</td>
<td></td>
</tr>
<tr>
<td>MasterTop BC 388 Hardener</td>
<td>3kg</td>
<td></td>
</tr>
<tr>
<td>MasterTop X1 Colour Pack</td>
<td>0.6kg</td>
<td></td>
</tr>
<tr>
<td>Mastertop Filler (30%)</td>
<td>4.2kg</td>
<td></td>
</tr>
<tr>
<td>Mastertop Filler (10%)</td>
<td>10kg</td>
<td></td>
</tr>
<tr>
<td><strong>Total Yield (bodycoat+30% Filler)</strong></td>
<td></td>
<td>11.5L</td>
</tr>
<tr>
<td><strong>Total Yield (bodycoat+70% Filler)</strong></td>
<td></td>
<td>14.3L</td>
</tr>
</tbody>
</table>
Cementitious Flooring
<table>
<thead>
<tr>
<th>PRODUCT TYPE</th>
<th>FILLER TYPE</th>
<th>WEAR RESISTANCE</th>
<th>TYPICAL USES</th>
</tr>
</thead>
<tbody>
<tr>
<td>MasterTop 330</td>
<td>Dry Shake</td>
<td>High</td>
<td>Commercial</td>
</tr>
<tr>
<td>MasterTop 200</td>
<td>Topping</td>
<td>Extra High</td>
<td>Industrial</td>
</tr>
<tr>
<td>MasterTop 105</td>
<td>Natural</td>
<td>Medium</td>
<td>Mine/Engineering</td>
</tr>
<tr>
<td></td>
<td>Metallic</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CEMENTITIOUS FLOORING**
MasterTop® 105
Silicon carbide aggregate surface hardener

DESCRIPTION:
MasterTop 105 is a non-metallic cement based floor hardener, which contains silicon carbide and other specially graded aggregates. It is applied as a dry shake over freshly floated concrete to provide a durable, non-slip monolithic floor.

RECOMMENDED FOR:
- Factories, workshops, showrooms, food and beverage processing areas, where a durable, non-rusting, non-slip floor is required to withstand moderate to heavy traffic
- Providing a durable, non-slip surface on ramps, stairs, landings etc. under wet or dry conditions
- Freezers & chillers with forklift traffic
- **MasterTop 105** is not recommended for use in areas where floor surface will be exposed to acids, their salts or materials which seriously and rapidly attack concrete. For applications under these service conditions consult BASF about their range of chemical resistant flooring systems, such as Ucrete.

FEATURES AND BENEFITS:
- **High abrasion and impact resistance** - long service life
- **Better abrasion resistance than plain concrete** - extended service life
- **Non-Rusting** - suitable for wet environments
- **Non-Slip** - Improved safety for personnel and forklifts in wet or cold environments
- **Dense Surface** - resists oil and grease penetration
- **Non-skid micro surface texture** - suitable for use in freezers where ice can create slip hazards
- **Easy application at time of placing concrete** - floor available for full service once concrete is cured.

ESTIMATING DATA:
The quantity of MasterTop 105 required should be determined according to the anticipated service conditions.

<table>
<thead>
<tr>
<th>Duty Type</th>
<th>Quantity per m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light to Moderate Duty</td>
<td>2 to 3kg per m²</td>
</tr>
<tr>
<td>Moderate to Heavy Duty</td>
<td>3 to 4kg per m²</td>
</tr>
</tbody>
</table>

PACKAGING:
MasterTop 105 is packaged in 20kg moisture resistant bags.
MasterTop® 200
Iron aggregate surface hardener

DESCRIPTION:
MasterTop 200 is an iron-armoured, dry-shake surface hardener for industrial floors needing additional abrasion resistance and impact protection. It is designed to be applied over freshly floated concrete to provide an iron armoured monolithic floor.

MasterTop 200 contains specially processed iron aggregate in a cementitious binder.

RECOMMENDED FOR:
- Industrial installations needing extra abrasion resistance and impact armouring
- Distribution warehouses
- Mine facilities
- Aircraft hangers
- Power stations
- Loading bay
- Workshops
- Industrial floor surfaces subject to heavy or frequent traffic, steel wheels, AGV’s, fork lifts

Do not use in areas where floor surfaces will be exposed to acids, their salts, or like materials, which seriously and rapidly attack cement and/or iron. Alternate solutions such as Ucrete are suitable for this application.

FEATURES AND BENEFITS:
- Increased abrasion resistance - up to 8 times greater than plain concrete.
- Much greater compacted density - increases resistance to penetration by oil, grease, hydraulic fluids, ethylene glycol and many industrial chemicals.
- Increased surface density - allows easier and less expensive maintenance because absorption of water and cleaning agents is reduced.
- Finished from smooth to slip resistant - iron aggregate makes this product a virtually non-dusting surface hardener that may be finished to meet any requirement.
- 100% iron aggregate - from special processing for strength.
- Available in an energy saving version - light reflective formulation can reduce the number and intensity of the lighting needed in a warehouse.
- Economic and fast application - reduced construction time floor surface applied at the time of concrete placement.
ESTIMATING DATA:
The rate of application will depend on the service conditions that the floor will be exposed to. The following rates are provided as a guide:

<table>
<thead>
<tr>
<th>Service Conditions</th>
<th>Rate of Application (kg per m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light to Moderate</td>
<td>3.0 to 5.0</td>
</tr>
<tr>
<td>Moderate</td>
<td>5.0 to 7.5</td>
</tr>
<tr>
<td>Heavy Duty</td>
<td>7.5 to 9.0</td>
</tr>
<tr>
<td>Very Heavy Duty</td>
<td>9.0 to 11.0</td>
</tr>
</tbody>
</table>

PACKAGING:
MasterTop 200 is packaged in ready-to-use 20kg moisture resistant bags. No further measuring or mixing of ingredients is required at the jobsite.
MasterTop® 330
Heavy-duty high strength iron aggregate topping

DESCRIPTION:
MasterTop 330 is an iron aggregate topping designed to provide industrial floors with extra heavy-duty protection against abrasion and impact. Applied over prepared hardened concrete it gives significantly longer service life than either normal high strength concrete or natural aggregate toppings.

RECOMMENDED USES:
- Areas subject to heavy abrasive traffic, impact and continuous wear such as loading docks, aisles, waste transfer facilities, truck or tractor repair areas and mill scale sluiceways.
- Areas where safety authorities have deemed other floor surfaces hazardous because of excessive wear dangerously buckled steel plates, etc.
- Mining workshops with tracked vehicles
- Floors with scraper blades in constant contact

MasterTop 330 is not recommended for areas where steel plate has worn through in less than one year, or where the floor surface is exposed to chemicals that would affect a concrete floor. For applications under these service conditions consult BASF about their range of chemical resistant flooring systems, such as Ucrete®

FEATURES AND BENEFITS:
- Ease of application - extended working life at screedable consistency (130 to 180mm slump) allows ample time to place, float and finish. Rotary compactors are not required.
- Heavy duty, durable industrial floor topping - formulated to be applied at thicknesses of 13 to 40mm
- High abrasion resistance - eight times more wear resistance than plain concrete
- Greater toughness - energy absorbing capacity is significantly greater than normal high strength concrete or natural aggregate toppings
- Increased impact resistance - four times greater than plain concrete
- High-density surface - resists oil and grease penetration, reduces dusting and absorption
- Protects against joint deterioration - iron armouring eliminates the risk of dangerous protruding or buckled joints from steel tiles, minimises damage to production goods and increases the life of materials handling equipment.

ESTIMATING DATA:
One 20kg bag of MasterTop 330 mixed with 2.0L drinkable water provides approximately 6.2L of screedable topping at 150mm slump. As a guide, 25mm thick needs 80kg per m² coverage.

Because the depth of the surface preparation may vary from design, it is best to overestimate the quantity required by 10-20% for the first stages, until actual usage is established.

PACKAGING:
MasterTop 330 is packaged in 20kg moisture resistant bags.
Floor Levelling
<table>
<thead>
<tr>
<th>PRODUCT TYPE</th>
<th>FILLER TYPE</th>
<th>WEAR RESISTANCE</th>
<th>TYPICAL USES</th>
</tr>
</thead>
<tbody>
<tr>
<td>MasterTop 1604</td>
<td>•</td>
<td>•</td>
<td>Primer</td>
</tr>
<tr>
<td>MasterTop 1600</td>
<td>•</td>
<td></td>
<td>Topping</td>
</tr>
<tr>
<td>MasterTop 546</td>
<td>•</td>
<td></td>
<td>Underlay</td>
</tr>
<tr>
<td>MasterTop 540</td>
<td>•</td>
<td></td>
<td>Natural</td>
</tr>
<tr>
<td>MasterTop 530</td>
<td>•</td>
<td></td>
<td>Self Levelling</td>
</tr>
<tr>
<td>MasterTop 515</td>
<td>•</td>
<td>•</td>
<td>Economic</td>
</tr>
<tr>
<td>MasterTop 513</td>
<td>•</td>
<td>•</td>
<td>Medium</td>
</tr>
<tr>
<td>MasterTop 507</td>
<td>•</td>
<td>•</td>
<td>Residential</td>
</tr>
<tr>
<td>MasterTop 508</td>
<td>•</td>
<td>•</td>
<td>Commercial</td>
</tr>
<tr>
<td>MasterTop 505</td>
<td>•</td>
<td>•</td>
<td>Industrial</td>
</tr>
</tbody>
</table>
MasterTop® 1600
Bonding agent for MasterTop floor levelling products

DESCRIPTION:
MasterTop 1600 is an acrylic copolymer emulsion for priming and bonding of cementitious floor levelling compounds.

RECOMMENDED FOR:
MasterTop 1600 is recommended for use as a primer for floor levelling products.

FEATURES AND BENEFITS:
• Excellent adhesion to concrete - durable bond for levelling products.
• Pore sealer - prevents air bubbles rising through the applied levelling compound.
• Economical - can be diluted 1:3 by volume with water.
• Fast and easy application - brush, roller or squeegee.

ESTIMATING DATA:
• One litre of MasterTop 1600 when diluted with 3 litres of water will prime approximately 25m²
• One litre of MasterTop 1600 when diluted with 2 litres of water will prime approximately 20m²
• One litre of MasterTop 1600 when diluted with 1 litres of water will prime approximately 15m²

PACKAGING:
MasterTop 1600 is available in 5 litre plastic jerry cans and 20 litre pails.
MasterTop® P 1604
Special primer for absorbent and non-absorbent substrates

DESCRIPTION:
MasterTop P 1604 is special primer for absorbent and non-absorbent substrates. It can be diluted with water and adapted to the absorbency of the substrate.

RECOMMENDED FOR:
- Indoors
- Use on absorbent and low-absorbent concrete and screed substrates
- Use as a special primer on anhydrite and magnesite screeds for floor levelling compounds and tile adhesives
- Use as a special primer on non-absorbent substrates such as ceramic tiles for subsequent floor levelling compounds
- Special primer for timber floors

FEATURES AND BENEFITS:
- **Solvent free** - no damage to the environment and operative caused by solvent vapour
- **High bond strength** - secure bonding of coverings and screeds to the respective substrate
- **Colour violet** - good to control the work area
- **Easy to use** - on horizontal or vertical substrates

APPLICATION RATES:
**Cement and magnesite screeds:**
Prime with MasterTop P 1604, diluted 1:3 with water, in two applications.

**Concrete substrates:**
Prime with MasterTop P 1604, diluted 1:2 with water, in two applications.

**Anhydrite screeds, wooden substrates and non-absorbent substrates (e.g. ceramic tiles):**
Prime with neat MasterTop P 1604, in one application (untreated raw timber floors require a second coat of primer after approximately 20 minutes).

ESTIMATING DATA:
Refer to Technical Data Sheet.

PACKAGING:
MasterTop P 1604 is available in 5 litre plastic jerry cans and 20 litre pails.
MasterTop® 1615
Latex additive for MasterTop® floor levelling products

DESCRIPTION:
MasterTop 1615 is a ready to use latex emulsion for modifying cementitious floor levelling compounds.

RECOMMENDED FOR:
MasterTop 1615 is recommended for modifying Mastertop floor levelling compounds to use them as trowellable levelling coats.
- Smoothing and levelling floors prior to installation of
  - Textile and resilient flooring
  - Parquetry or laminate flooring
- Levelling of cementitious and timber substrates
- Production of smooth and level surfaces in layers 1-30mm

FEATURES AND BENEFITS:
- Excellent adhesion to concrete - Stable levelled floor
- Seals pores in concrete - Prevents air bubbles rising through the applied levelling compound
- Not affected by heat - Can be used with under floor heating
- Flexible - resists cracking

ESTIMATING DATA:
One 20 kg bag of MasterTop 510 or 515 mixed with 5.5 litres of MasterTop 1615 will yield 12.4L

PACKAGING:
MasterTop 1615 is available in 5.5L plastic jerry cans.
MasterTop® 505
Rapid setting feather finish cementitious floor underlayment

DESCRIPTION:
MasterTop 505 is used to finish and smooth a variety of surfaces including concrete, underlayments, wood, residential vinyl, ceramic/quarry tiles, terrazzo and adhesives. Combined with water MasterTop 505 mixes to a creamy smooth consistency for ease of application.

MasterTop 505 is a rapid setting, aggregate-free, polymer modified cement-based finishing underlayment.

RECOMMENDED FOR:
- Skim coating and smoothing rough concrete
- For filling minor voids, holes and cracks in concrete and underlayments
- Levelling and smoothing wood underlayment seams and joints
- Levelling and filling embossed sheet goods
- Skim coating over ceramic tile
- Skim coating over adhesive residue or membranes that are thin, well bonded, structurally sound and non-water soluble

FEATURES AND BENEFITS:
- Rapid setting - downtime is minimised for lower installed cost
- Compatible with most flooring adhesives - one product for numerous applications
- Can be feather-edged - high coverage rates yield lower overall material costs
- No priming - extra steps and time are eliminated
- One-component polymer modified - only water is needed for mixing

ESTIMATING DATA:
4.5kg unit yields 9 litres and covers up to 30m²

PACKAGING:
MasterTop 505 is available in 4.5kg resealable pails and 12kg bags.
MasterTop® 508
Economical self-levelling cementitious floor underlayment

DESCRIPTION:
MasterTop 508 is a self-levelling, cementitious, non-structural, floor underlayment intended for use over poured in-situ and precast concrete floors which will be covered by carpet, ceramic tiles or floating wood floors. Only water needs to be added at the job site to obtain the desired consistency for installation.

RECOMMENDED FOR:
- Finishing rough screeded floors
- Levelling up floors
- Refurbishing old floors
- Resurfacing internal rain damaged floors

MasterTop 508 is not suitable as a finished topping layer for external use

FEATURES AND BENEFITS:
- Resistant to cracking - long service life
- Economical - low installed cost
- Fast strength gain - ready for foot traffic after 3-4 hours
- Fast curing - return to service in 24 hours
- Multi-purpose - suitable for most carpet adhesives

ESTIMATING DATA:
A 20kg bag of MasterTop 508 mixed with 4.4 litres of water yields 11.9 litres

PACKAGING:
MasterTop 508 is available in 20kg moisture resistant bags.
MasterTop® 510
Self-levelling cementitious floor underlayment

DESCRIPTION:
MasterTop 510 is a self-levelling, cementitious, non-structural, floor underlayment intended for use over poured in situ and precast concrete floors, which will be covered by carpet, vinyl, ceramic tiles, natural stone, parquetry or floating wood floors, including kitchens and pantries. Only water needs to be added at the job site to obtain the desired consistency for pumping or manual installation.

RECOMMENDED FOR:
- Finishing rough screeded floor
- Levelling up floors
- Refurbishing old floors
- Resurfacing internal rain damaged floors

MasterTop 510 is not suitable as a finished topping layer for external use.

FEATURES AND BENEFITS:
- Highly fluid and pumpable - fast installation.
- Rapid strength gain - return to service in 24 hours.
- Economical - low installed cost.
- Resistant to cracking - long life of the floor.
- Fast setting - ready for foot traffic after 3-4 hours to reduce time floor inaccessible.
- Multi-purpose - suitable for most carpet and tile adhesives.

ESTIMATING DATA:
A 20kg bag of MasterTop 510 mixed with 5.0 litres of water yields 12.2 litres.

PACKAGING:
MasterTop 510 is packaged in 20kg moisture resistant bags.
MasterTop® 513
Smooth self-levelling cementitious floor underlayment

DESCRIPTION:
MasterTop 513 is a smooth, self-levelling, cementitious, non-structural, floor underlayment intended for use over poured in situ and precast concrete floors which will be covered by carpet, vinyl, ceramic tiles or natural stone. MasterTop 513 has been specifically formulated to achieve a fast setting, level and flat surface with maximum available flow time. Only water needs to be added at the job site to obtain the desired consistency for pumping or manual installation.

RECOMMENDED FOR:
- Finishing rough screeded floor
- Levelling up floors
- Refurbishing old floors
- Resurfacing internal rain damaged floors
- Internal floors above or below grade

MasterTop 513 is not suitable for external wearing surface

FEATURES AND BENEFITS:
- Highly fluid and pumpable - fast installation
- Rapid strength gain - next day installation of floor covering
- Low installed cost - economical for large areas
- Resistant to cracking - long-term stability of the floor
- Ready for foot traffic after 3-5 hours - minimises time for restriction to floor surface
- Compatible with most carpet and tile adhesives - no restriction of use
- Able to be feather-edged - complete levelling of floor

ESTIMATING DATA:
A 20kg bag of MasterTop 513 mixed with 5.0 litres of water yields 12.2 litres.

PACKAGING:
MasterTop 513 is packaged in 20kg moisture resistant bags.
MasterTop® 515
Ultra smooth self-levelling cementitious floor underlayment

DESCRIPTION:
MasterTop 515 is an ultra-smooth self-levelling, cementitious, non-structural, floor underlayment intended for use over poured in-situ and precast concrete floors which will be covered by carpet, vinyl, ceramic tiles, natural stone or timber.

MasterTop 515 has been specifically formulated to achieve a fast setting, level and flat surface with maximum available flow time. Only water needs to be added at the job site to obtain the desired consistency for pumping or manual installation.

RECOMMENDED FOR:
• Finishing rough screeded floors
• Levelling up floors out of level
• Refurbishing old floors
• Re-surfacing internal rain damaged floors
• Internal floors above or below grade

MasterTop 515 is not suitable for external wearing surface

FEATURES AND BENEFITS:
• Highly fluid and pumpable - fast installation
• Rapid strength gain - next day installation of floor covering
• Low installed cost - economical for large areas
• Resistant to cracking - long-term stability of the floor
• Ready for foot traffic after 3-4 hours - minimises time for restriction to floor surface
• Compatible with most carpet and tile adhesives - no restriction of use
• Able to be feather-edged - complete levelling of floor

NOTE: MasterTop 515 may suffer a damaged uneven surface if exposed to puddled water.

ESTIMATING DATA:
A 20kg bag of MasterTop 515 mixed with 5.0 litres of water yields 12.2 litres.

PACKAGING:
MasterTop 515 is packaged in 20kg paper bags.
MasterTop® 530
Bulk fill self-smoothing cementitious floor underlayment

DESCRIPTION:
MasterTop 530 is an economical self-smoothing, cementitious, non-structural floor underlayment intended for use over poured in situ and precast concrete floors which will be covered by carpet, vinyl, ceramic tiles, natural stone or timber. MasterTop 530 has been specifically formulated to achieve a fast setting surface with maximum available flow time. Only water needs to be added at the job site to obtain the desired consistency for pumping or manual installation.

RECOMMENDED FOR:
- Rough screeding prior to skim coating
- Levelling up floors
- Refurbishing old floors
- Resurfacing internal rain damaged floors
- Internal floors above or below grade
- Use in conjunction with MasterTop 515 to provide a flat blemish free surface

MasterTop 530 is not suitable as a finished topping layer or for external use.

FEATURES AND BENEFITS:
- Highly fluid and pumpable - fast installation.
- Rapid strength gain - fast installation of floor leveller.
- Resistant to cracking - long service life.
- Fast return to service - apply floor leveller after 3 hours.

NOTE: MasterTop 530 may suffer a damaged, uneven surface if exposed to puddled water.

ESTIMATING DATA:
A 20kg bag of MasterTop 530 mixed with 2.4 litres of water yields 10 litres

PACKAGING:
MasterTop 530 is packaged in 20kg paper bags.
MasterTop® 540
Self-levelling cementitious floor overlay

DESCRIPTION:
MasterTop 540 is an economical, self-levelling, cementitious, non-structural, floor overlay intended for use over poured in situ and precast concrete floors that are subject to light traffic conditions. MasterTop 540 has been specifically formulated to achieve a fast setting, level and flat surface with maximum available flow time. Only water needs to be added at the job site to obtain the desired consistency for pumping or manual installation.

RECOMMENDED FOR:
- Finishing rough screeded floor
- Levelling up floors
- Refurbishing old floors
- Resurfacing internal rain damaged floors
- Refurbishment over terrazzo, quarry or ceramic tiles
- Internal floors only

Do not use in the following areas:
- Externally
- Areas subject to weather, to impact, to constant moisture and heavy industrial applications

FEATURES AND BENEFITS:
- Highly fluid and pumpable - for fast installation.
- Rapid strength gain - ready for foot traffic after 6 hours and return to service in 24 hours.

ESTIMATING DATA:
A 20kg bag of MasterTop 540 mixed with 4.8 litres of water yields 12.0 litres

PACKAGING:
MasterTop 540 is packaged in 20kg moisture resistant bags.
MasterTop® 546
Rapid setting cementitious floor underlayment

DESCRIPTION:
MasterTop 546 is an economical, non-sag, cementitious, non-structural, floor
patching material intended for use over poured in-situ and precast concrete floors
which will be covered by a cementitious underlay.

MasterTop 546 has been specifically formulated to achieve fast setting mortar.

RECOMMENDED FOR:
- Filling holes and penetrations
- Levelling up floors
- Ramps
- Coves
- Internal floors above or below grade

NOTE: MasterTop 546 is not suitable as a finished topping layer for external use.

FEATURES AND BENEFITS:
- Rapid strength gain - fast installation of MasterTop 546 and subsequent toppings
- Simple installation - trowellable
- Shrinkage compensated
- Fast continuation of underlayment application - ready for foot traffic after
  60 minutes
- Fast return to service - return to service in 2 hours
- Multi-purpose - compatible with most floor covering adhesives

ESTIMATING DATA:
A 20kg bag of MasterTop 546 mixed with 3.6 litres of water yields 11.8 litres
(0.0118m³).

PACKAGING:
MasterTop 546 available in 20kg moisture resistant bags.
Floor Sealers
<table>
<thead>
<tr>
<th>PRODUCT TYPE</th>
<th>CHARACTERISTICS</th>
<th>USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SINGLEPACK</td>
<td>Epoxy</td>
<td>Internal</td>
</tr>
<tr>
<td>TWO-PACK</td>
<td>Polyurethane</td>
<td>External</td>
</tr>
<tr>
<td>Epoxy</td>
<td>Acrylic</td>
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<td>Epoxy</td>
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</tr>
<tr>
<td>Epoxy</td>
<td>Curing</td>
<td>Top Coat</td>
</tr>
</tbody>
</table>
MasterTop® 333
Dust arresting and hardening treatment

DESCRIPTION:
MasterTop 333 is a deep penetrating silicate solution for sealing and dust proofing powdery or friable concrete and concrete block surfaces.

RECOMMENDED FOR:
- Old concrete floors that are dusting
- Powdery or friable concrete that is dusting due to inadequate curing and/or low cement content and concrete block work with friable surfaces
- New concrete surfaces to seal against oil, grease and many chemical solutions

MasterTop 333 is not suitable for:
- Clay bricks or pavers
- Will etch glass

FEATURES AND BENEFITS:
- Dust arresting treatment – binds the surface of old or new concrete to reduce dusting
- Prolongs the serviceable life of "problem" concrete floors before re-topping is required - deep penetrating liquid hardener
- Increased durability and resistance to abrasion - protects concrete surfaces by sealing and hardening concrete surfaces
- Dense surface - resists penetration of oil and grease. Protects concrete from the corrosive effects of smoke fumes, mild acids, salts and many other aggressive chemical solutions
- Economical - large areas can be dustproofed with an application
- Caution - will etch glass and is not suitable for clay bricks or pavers

ESTIMATING DATA:
Coverage will vary greatly depending on the porosity and texture of the surface of the concrete and its age. Old concrete can take double the quantity of MasterTop 333 compared to new concrete as will a very rough profile at the surface.

Concrete Finish Old/New Coverage
- Wood float Old 0.17 litre/m² (6m²/litre)
- Wood float New 0.10 litre/m² (10m²/litre)
- Steel float Old 0.12 litre/m² (8m²/litre)
- Steel float New 0.08 litre/m² (12m²/litre)

Refer to Technical Data Sheet for further information.

PACKAGING:
MasterTop 333 is available in 20 litre containers.
**MasterKure® 402**
Solvent based acrylic curing compound and sealer

**DESCRIPTION:**
MasterKure 402 is a clear, modified acrylic, membrane forming, curing compound for use on plain or coloured concrete. MasterKure 402 meets and exceeds the moisture retention requirements of ASTM C-309 'Specification for Liquid Membrane-forming Compounds' when applied at the recommended rate.

**RECOMMENDED FOR:**
- Curing plain and coloured fresh concrete floors, smooth or textured surfaces, indoor or outdoor applications
- Curing cementitious toppings and surface hardening finishes, particularly those containing metallic aggregates such as MasterTop 200
- Efficiently curing all cementitious grouts and mortars including MasterFlow iron and natural aggregate formulations

**FEATURES AND BENEFITS:**
- **Efficient curing of concrete** - seals in moisture to facilitate complete hydration of cement matrix, maximising strength, increasing durability, improving wear resistance and minimising surface dusting.
- **Non-yellowing and safe** - will not increase the slipperiness of concrete floors.
- **Easy to use** - can be applied by brush, roller or spray and does not interfere with the adhesion of additional cement based toppings.
- **Multi-purpose** - can be applied to smooth or rough surfaces.
- **Glossy** - leaves polished glazed appearance on floor surface and can be recoated to provide semi-gloss surface.

**ESTIMATING DATA:**
Actual coverage depends on the texture and porosity of the surface.

For curing fresh concrete floors, apply at a rate of 5m² per litre to meet moisture retention requirements of ASTM C-309.

For sealing of existing plain or coloured concrete floors, coverage will vary depending on the texture and porosity and ambient temperatures however it will generally be in the range 7.5 to 10m² per litre per coat, two coats recommended.

**PACKAGING:**
MasterKure 402 is available in 20 litre and 200 litre drums.
MasterKure® 404
Water based acrylic copolymer curing compound
and sealer

DESCRIPTION:
MasterKure 404 is a modified acrylic, membrane forming curing compound for use on plain or coloured concrete. MasterKure 404 meets and exceeds the moisture retention requirements of AS3799-1998 when applied at the recommended application rate.

RECOMMENDED USES:
- Curing plain and coloured fresh concrete floors, smooth or textured surfaces, indoor or outdoor applications.
- Curing cementitious toppings and surface hardening finishes, particularly those containing metallic aggregates such as the MasterTop 200 range.
- Efficiently curing all cementitious grouts and mortars including MasterFlow iron and natural aggregate formulations.
- Curing of concrete that will have an additional topping such as cement based tile adhesives or toppings.

FEATURES AND BENEFITS:
- Efficient curing of concrete - seals in moisture to facilitate complete hydration of cement matrix, maximising strength, increasing durability, improving wear resistance and minimising surface dusting.
- Non-yellowing and safe - will not increase the slipperiness of concrete floors.
- Easy to use - can be applied by brush, roller or spray and does not interfere with the adhesion of additional cement based toppings.
- Multi-purpose - can be applied to smooth or rough surfaces.
- Glossy - leaves polished glazed appearance on floor surface and can be recoated to provide a semi-gloss surface.

ESTIMATING DATA:
Actual coverage depends on the texture and porosity of the surface.

For curing fresh concrete floors, apply at a rate of 5m² per litre to meet moisture retention requirements of AS3799-1998.

For sealing of existing plain or coloured concrete floors, coverage will vary depending on the texture and porosity and ambient temperatures however it will generally be in the range 7.5 to 10m² per litre per coat, two coats recommended.

PACKAGING:
MasterKure 404 is available in 20 litre and 200 litre drums.
**MasterTop® 1116**

*Water based epoxy primer*

**DESCRIPTION:**
MasterTop 1116 is a two-component, grey coloured water-based epoxy primer/moisture barrier for use with MasterTop levelling systems and MasterSeal waterproofing systems. The product has low-odour and is non-flammable.

**RECOMMENDED FOR:**
MasterTop 1116 is recommended as a primer for Mastertop floor levellers MasterSeal waterproofing membrane.

MasterTop 1116 moisture barrier forms a sound surface for polyurethanes to adhere to and provides excellent adhesion to concrete, metal and wood.

**FEATURES AND BENEFITS:**
- **Water-based** - suitable for damp substrates
- **Moisture barrier** - blocks moisture from moving through the substrate allowing the installation of levelling materials where there is a risk of moisture coming through the slab during curing
- **Primer for non-porous substrates** - used as part of MasterSeal system

**ESTIMATING DATA:**
Approximately 4m²/litre is the recommended coverage rate, however, porous surface conditions will require more material. Do not over-apply the primer.

**PACKAGING:**
MasterTop 1116 is available in kits (2 x 10 lt pails).
MasterTop® TC 406
Industrial floor sealer

DESCRIPTION:
MasterTop TC 406 is a water based, two pack clear epoxy system formulated to provide ease of application, fast hardening and excellent adhesion to concrete. It is a hard wearing, anti-dusting sealer for a wide range of industrial and commercial applications.

RECOMMENDED FOR:
- Warehouses
- Factories
- Car parks
- Plant rooms
- General industrial applications

FEATURES AND BENEFITS:
- Fast curing - fast return to service
- Durable - long life
- Ease of application - apply by roller
- Dust sealing - coating for plain concrete

ESTIMATING DATA:
Over dense surfaces with texture similar to fine-medium sandpaper or ICRI CSP 2-3, the coverage rate is 12m² per litre per coat.

PACKAGING:
MasterTop TC 406 is available in a 60 litre kit comprising:
Part A: 2 x 20 litre pails
Part B: 1 x 20 litre pail
DESCRIPTION:
MasterTop TC 450 is a solventless, high gloss, low viscosity two pack epoxy coating designed for application as a clear hard wearing surface primarily over ground concrete or vinyl flake flooring.

RECOMMENDED FOR:
• Wear resistant finish to concrete
• Workshops
• Warehouses

FEATURES AND BENEFITS:
• Mild odour, light colour
• Minimal sweat-out, blush or bloom
• Resistant to mild acids/alkalis
• UV resistant, behind glass indoors.
• Easy application by roller or squeegee
• Excellent surface wetting characteristics
• Minimal water spotting
• Low viscosity
• Good adhesion
• Good mar resistance

ESTIMATING DATA:
One 10 litre kit of MasterTop TC 450 = 20m² (2 x 250µm dft)

PACKAGING:
MasterTop TC 450 Part A: 6 litres
MasterTop TC 450 Part B: 4 litres

NOTE: Part A packaging is large enough to receive Part B so will look “half full” prior to addition of Part B.
MasterTop® TC 471
Clear UV resistant polyurethane coating for concrete - matt

DESCRIPTION:
MasterTop TC 471 is a clear UV resistant two component polyurethane coating system for concrete in both internal and external applications.

RECOMMENDED FOR:
- General retail operations
- Restaurants
- Television studios
- Photo studios
- Car parks
- Workshops
- Printing operations
- General commercial areas
- General externally exposed concrete
- Correctional facilities
- Animal care centres

FEATURES AND BENEFITS:
- Provides an aesthetically pleasing matt finish
- Fast hardening
- Non yellowing, UV stabilised - external applications
- Good chemical and stain resistance
- Excellent scratch resistance
- Re-coatable
- Good general durability

ESTIMATING DATA:
Approximately 180m² per coat.

PACKAGING:
MasterTop TC 471 is packed as a 18 litre kit comprising:
Part A: 14.4 litres
Part B: 3.6 litres
MasterTop® TC 495
Clear UV resistant polyurethane coating for concrete - gloss

DESCRIPTION:
MasterTop TC 495 is a clear coating based on polyurethane resin. The cured material gives a tough and durable coating which will not yellow on exposure to UV light and may therefore be used externally.

MasterTop TC 495 possesses excellent adhesion to concrete.

RECOMMENDED FOR:
- External protection of concrete
- Wear resistant finish to concrete
- Workshops
- Warehouses

FEATURES AND BENEFITS:
- UV stable
- Non-yellowing
- Single pack
- Easy application

ESTIMATING DATA:
Typical coverage is 6-8m²/litre subject to loss and wastage, surface profile and porosity.

PACKAGING:
MasterTop TC 495 is available in 20L cans.
Cementitious and Epoxy Grouts
### GROUTS - CEMENTITIOUS

**PRODUCT**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Grade</strong></td>
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<tr>
<td>Cable Grout</td>
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<tr>
<td>MasterFlow 788 (90)</td>
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<tr>
<td>MasterFlow 810 (65)</td>
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<td>MasterFlow 815</td>
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<td>MasterFlow 816</td>
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<td>MasterFlow 870 (80)</td>
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<td>MasterFlow 4500 (80)</td>
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<td>MasterFlow 4510 (80)</td>
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<td>MasterFlow 4600 (110)</td>
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<tr>
<td>MasterFlow 9200 (120)</td>
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<tr>
<td>MasterFlow 9300 (115)</td>
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<td>MasterFlow 9500 (135)</td>
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### GROUTS - EPOXY

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<th>GROUTS - EPOXY</th>
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<tbody>
<tr>
<td><strong>Product</strong></td>
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<tr>
<td>MasterFlow 618 (105)</td>
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<td>MasterFlow 628 (98)</td>
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<td>MasterFlow 648 (120)</td>
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<td>MasterFlow 748 (80)</td>
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<tr>
<td>MasterFlow 768 (80)</td>
</tr>
<tr>
<td>MasterFlow 788 (80)</td>
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</tbody>
</table>

### Other Properties

- **Dynamic Load:** Good > Excellent
- **Underwater:** MasterFlow 700 - 788, 810
- **Chemical Resistance:** High Temp >100°C
- **Creep Resistance:** High
- **Bolt Clearance:** High
- **High Temp Resistance:** >100°C
- **Deep Pour:** Low Exotherm
- **Low Exotherm:** Underwater
MasterFlow® 700
Cementitious general purpose construction grout

DESCRIPTION:
MasterFlow 700 is a ready-to-use pumpable, natural aggregate, general purpose grout which undergoes controlled expansion in the plastic state.

MasterFlow 700 is a Class A grout as defined by AS 1478.1-2000, Appendix E, section E5.1.

MasterFlow 700 may be placed in dry (damp) packed, plastic or fluid consistency and is generally used in applications requiring a grout thickness between 12mm and 100mm.

RECOMMENDED FOR:
All general purpose grouting operations with clearances of 12mm to 100mm, including:

- Non-critical column and equipment bases
- An in-fill grout for cavity block walls
- Caulking of joints and pipes
- Between and under pre-cast panels and other joints where total load-bearing is not required
- Underpinning where a grout similar in appearance to concrete is required

FEATURES AND BENEFITS:
- Ready to use - premixed grout requires only the addition of mixing water on site.
- Low water/cement ratio - reduces drying shrinkage and increases durability.
- Damp packable - can be applied without slumping.
- Complete void filling - resulting from controlled fluid-phase expansion.
- Non staining grout - similar in appearance to plain concrete.
- Economical - relatively low in-place cost due to its ease of use and flowable properties.
- No added chlorides - does not contribute to chloride load.

ESTIMATING DATA:
A 20kg bag of MasterFlow 700 mixed with 3 litres water yields 10.5 litres (0.0105m³).

PACKAGING:
MasterFlow 700 is packaged in 20kg moisture resistant paper bag.
MasterFlow® 788
Non-shrink, cementitious grout for underwater applications

DESCRIPTION:
MasterFlow 788 is a ready to use, cementitious grout which, on mixing with the specified quantity of water provides a flowable grout with high resistance to cement wash out when placed under water, with high early and final strength characteristics. The grout undergoes controlled expansion in the plastic state.

RECOMMENDED FOR:
MasterFlow 788 is recommended for repairing structures under water and in tidal zone by grouting. The grout is suitable for use under both stationary and moving waters. Applications include repair of:

- Bridge piers
- Concrete piles
- Jetty pillars
- Harbour walls

FEATURES AND BENEFITS:
- Shrinkage compensated - continues to retain filled volume.
- Non-wash out - no significant cement wash out under water. Gains full strength even under water.
- Free flowing - flows easily even in gaps as narrow as 20 mm, to facilitate complete filling of voids.
- Pre packed - no batching or blending errors. Consistency in performance from batch to batch.
- Dense micro structure - resists water ingress. Protects steel.
- High early and final strengths - early load transfer and rapid installation.
- High bond strength - primer not required to facilitate good bond.

ESTIMATING DATA:
The yield from 20 kg MasterFlow 788 at flowable consistency is 11 L. Therefore material requirement is 18.2 kg/m² at 10 mm thickness.

PACKAGING:
MasterFlow 788 is available in 20kg bags and 1000kg bulk bags.
MasterFlow® 810

Non-shrink, precision cementitious grout for use in general civil engineering works

DESCRIPTION:
MasterFlow 810 is a ready to use, non-shrink, natural aggregate cementitious precision grout for use in general civil engineering works. MasterFlow 810 provides extended working life and high early and ultimate strengths.

RECOMMENDED FOR:
All precision, non-shrink grouting applications with clearances of 10mm to 100mm, including:

- Critical equipment baseplates, soleplates and columns.
- Precast wall panels, beams, columns, structural building members and curtain walls.
- Patching poured in place concrete structures e.g. honeycombing, using preplaced aggregate techniques.
- Underpinning.
- Anchoring dowels, bolts and other fixings.
- Applications requiring high early compressive strengths and high ultimate compressive strengths.

FEATURES AND BENEFITS:

- **High strength** - provides good early and ultimate strengths which ensure quick return to service and long term durability
- **Non shrink** - hardens free of bleeding, settlement and drying shrinkage when placed at flowable consistency
- **Flowable consistency** - ensures complete filling of even intricate voids often without the need for pumping and strapping
- **Ample working time** - remains placeable up to 1 hour, even at high ambient temperatures
- **Dense, impermeable grout** - provides a good watertight seal
- **No added chloride** - does not add to chloride load on structure
- **Provides complete non shrink performance** - when tested in accordance with simulated Bedplate Technique.
- **Compliance with codes** - meets the non-shrink requirements of ASTM C1090 and CRD-C 621, Corps of Engineers Specification for Non Shrink Grout; tested to the requirements of AS1478.2 “Methods of sampling and testing admixtures for concrete, mortar and grout”.

ESTIMATING DATA:
20kg of MasterFlow 810 mixed to flowable consistency produces approximately 11.0 litres (0.011 m³) of grout.

PACKAGING:
MasterFlow 810 is packaged in 20kg moisture resistant bag.
MasterFlow® 815
Cementitious high strength non-shrink precision grout for deep pour applications

DESCRIPTION:
MasterFlow 815 is a non-shrink, natural aggregate precision grout for deep pours, formulated to provide ample working time when mixed and placed at flowable consistency. It contains specially graded natural aggregate up to 5 mm in size and provides high early and ultimate compressive strengths. It is generally used for deep pour applications between 50mm and 500mm.

RECOMMENDED FOR:
MasterFlow 815 is used for all precision, non-shrink grouting applications with thick layers and clearances of 50mm or more, including:

• Equipment baseplates, sole plates & columns
• Precast concrete panels, beams and columns
• Concrete repair applications where a form and pour material is required
• Grouting thick pour applications up to 500mm thick
• Applications requiring high early compressive strengths and high ultimate compressive strengths

FEATURES AND BENEFITS:
• High strength - provides good early and ultimate strengths, which ensure quick return to service and long term durability
• Non shrink - hardens free of bleeding, settlement and drying shrinkage when placed at flowable consistency
• Ample working time - remains placeable even at high ambient temperatures
• Flowable consistency - able to be pumped with grout pump
• Non staining - free of metallic aggregate
• Similar in appearance to plain concrete
• No added chloride
• Complies with codes - meets requirements of AS1478.2 - 2005 and the non-shrink requirements of ASTM C1090 and CRD-C 621 Corps of Engineers Specification for Non-Shrink Grout
• Provides complete non-shrink performance when tested in accordance with a simulated Bedplate Technique

ESTIMATING DATA:
20kg of MasterFlow 815 mixed to flowable consistency produces approximately 10.0litres (0.01m³) of grout.

PACKAGING:
MasterFlow 815 is packaged in 20kg moisture resistant bag.
MasterFlow® 816
Cementitious aggregate free cable grout

DESCRIPTION:
MasterFlow 816 is a ready-to-use aggregate free grout specially formulated for applications that require a fluid shrinkage compensating grout where clearances are shallow, grouting of tensioned cables and rods stressed above 550MPa.

RECOMMENDED FOR:
- Shrinkage compensated grouting in restricted spaces between precast wall panels, beams and columns where grout will be in contact with highly stressed steel
- Grouting of anchor bolts, rods and pipes where the annular space is too small for conventional aggregate containing grouts (clearances of 6 to 25mm)
- Repairs to concrete, such as cracks and honeycombing, filing small voids
- Pumping into areas around pre-tensioned or post-tensioned cables and rods to encapsulate the steel and protect it against corrosion, and to provide maximum anchorage
- Placing around end sections of unanchored cables and rods to provide anchorage for subsequent tensioning
- Grouting cable anchor plates or other types of plates where grout will be in contact with highly stressed anchorages.

FEATURES AND BENEFITS:
- **Aggregate free** - pumpable into areas inaccessible to conventional grouts or grouting methods and to enhance flow and protect stressed tendons, bolts or bars from corrosion
- **Hydrogen free expansion mechanism** - no danger of hydrogen embrittlement of high tensile tendons
- **No bleeding** - completely fills ducts with no free space
- **Long open time** - can be pumped and/or recirculated for relatively long periods of time
- **Non shrink** - hardens without shrinkage within the sheath or hole ensuring maximum bond and protection against ingress of water while in service

ESTIMATING DATA:
20kg of MasterFlow 816 when mixed to fluid consistency produces approximately 13.6 litres (0.0136m³) of grout.

PACKAGING:
MasterFlow 816 is packaged in 20kg moisture resistant bags.
MasterFlow® 870

Cementitious high strength non-shrink precision grout

DESCRIPTION:
MasterFlow 870 is a non-shrink, natural aggregate precision grout with excellent high early and ultimate strengths. It is specially formulated to provide extended working time even at high ambient temperatures when mixed and placed at any recommended consistency. MasterFlow 870 is normally placed at a flowable consistency to completely fill voids between 10mm and 100mm.

RECOMMENDED FOR:
MasterFlow 870 is used for all precision, non-shrink grouting applications with clearances of 10mm to 100mm, including:
- Critical equipment baseplates, soleplates & columns
- Precast wall panels, beams, columns, structural building members and curtain walls
- Patching poured in place concrete structures, e.g. honeycombing, using preplaced aggregate techniques
- Underpinning
- Concrete repair applications where a form and pour material is required
- Applications requiring high early compressive strengths and high ultimate compressive strengths.

FEATURES AND BENEFITS:
- **High early strength** - ensures rapid commissioning of new equipment and structures
- **High ultimate strength** - ensures permanence of the installation under static and moderate repetitive loads
- **Flowable long life grout** - easy to grout intricate space normally inaccessible by conventional grouting techniques
- **Extended working time** - facilitates grouting of large or difficult placements in a single pour, often without the use of a pump
- **Dense, non-shrink grout** - hardens free of bleeding, settlement and drying shrinkage, ensuring tight contact with all grouted surfaces
- **No added chloride** - does not add to chloride load of structure
- **Compliance with codes** - meets the non-shrink requirements of ASTM C1090 and CRD-C 621, Corps of Engineers Specification for Non Shrink Grout; provides complete non shrink performance when tested in accordance with simulated Bedplate Technique; tested to the requirements of AS1478.2 “Methods of sampling and testing admixtures for concrete, mortar and grout”.

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ESTIMATING DATA:
One 20 kg bag of MasterFlow 870 mixed according to directions will yield the following consistency grouts at 20°C:
Flowable – 10.8 litres, approximately
Plastic – 10.4 litres, approximately

PACKAGING:
MasterFlow 870 is available in 20kg bags.
MasterFlow® 4500
Cementitious high strength non-shrink precision grout

DESCRIPTION:
MasterFlow 4500 is a non-shrink, PCE plasticized natural aggregate precision grout with excellent high early and ultimate strengths. It is specially formulated to provide extended working time even at high ambient temperatures when mixed and placed at any recommended consistency. MasterFlow 4500 is normally placed at a flowable consistency to completely fill voids between 10mm and 100mm. Thicknesses greater than 100mm are possible with the use of MasterFlow 4510.

RECOMMENDED FOR:
MasterFlow 4500 is used for all precision, non-shrink grouting applications with clearances of 10mm or more, including:

- Critical equipment baseplates, soleplates & columns
- Precast wall panels, beams, columns, structural building members, modular building construction and curtain walls
- Patching poured in place concrete structures, e.g. honeycombing, using pre-placed aggregate techniques
- Applications requiring high early compressive strengths and high ultimate compressive strengths.

FEATURES AND BENEFITS:
- **High early strength** - ensures rapid commissioning of new equipment and structures
- **High ultimate strength** - ensures permanence of the installation under static and moderate repetitive loads
- **Flowable non-thixotropic grout** - easy to grout intricate spaces as grout easily melds with previous pours and requires no additional strapping or agitation
- **Extended working time** - facilitates grouting of large or difficult placements in a single pour, often without the use of a pump
- **Dense, non-shrink grout** - hardens free of bleeding, settlement and drying shrinkage, ensuring tight contact with all grouted surfaces
- **Compliance with codes** - meets the non-shrink requirements of ASTM C1090 and CRD-C 621, Corps of Engineers Specification for Non Shrink Grout; tested to the requirements of AS1478.2 “Methods of sampling and testing admixtures for concrete, mortar and grout”

ESTIMATING DATA:
One 20 kg bag of MasterFlow 4500 mixed according to directions will yield the following consistency grouts at 20°C:
Flowable - 10.5 litres, approximately

PACKAGING:
MasterFlow 4500 is available in 20kg bags
MasterFlow® 4510
Cementitious high strength non-shrink deep pour precision grout

DESCRIPTION:
MasterFlow 4510 is a non-shrink, PCE plasticized natural aggregate precision grout with excellent high early and ultimate strengths. It is specially formulated to provide extended working time even at high ambient temperatures when mixed and placed at any flowable consistency. MasterFlow 4510 is normally placed at a flowable consistency to completely fill voids between 35mm and 500mm.

RECOMMENDED FOR:
MasterFlow 4510 is used for all precision, non-shrink grouting applications with clearances of 35mm or more, including:
- critical equipment baseplates, soleplates & columns up to 500 mm thick
- precast wall panels, beams, columns, structural building members, modular building construction and curtain walls
- underpinning;
- applications requiring high early compressive strengths and high ultimate compressive strengths
- Jacket grouting applications

FEATURES AND BENEFITS:
- High early strength - ensures rapid commissioning of new equipment and structures
- High ultimate strength - ensures permanence of the installation under static and moderate repetitive loads
- Extended working time - facilitates grouting of large or difficult placements in a single pour, often without the use of a pump
- Dense, non-shrink grout - hardens free of bleeding, settlement and drying shrinkage, ensuring tight contact with all grouted surfaces
- Easy to use - requires no special mixing equipment, it can be mixed in a standard grout pump with 6mm particle capability or in a pail using a grout stirrer
- Compliance with codes - meets the non-shrink requirements of ASTM C1090 and CRD-C 621, Corps of Engineers Specification for Non Shrink Grout; tested to the requirements of AS1478.2 “Methods of sampling and testing admixtures for concrete, mortar and grout”

ESTIMATING DATA:
MasterFlow 4510 mixed according to directions to a flowable consistency will yield the following at 20°C:
- 1000Kg Bag 485 Litre approx.
- 20Kg Bag 9.7 Litre approx.

PACKAGING:
MasterFlow 4510 is packaged in 20 kg bags and 1000Kg bulk bags.
MasterFlow® 4600
Cementitious ultra high strength, non-shrink, iron reinforced precision grout

DESCRIPTION:
MasterFlow 4600 is a non-shrink, PCE plasticised iron reinforced precision grout with ultra-high early and ultimate strengths. It is formulated to provide extended working time even at high ambient temperatures when mixed and placed at any recommended consistency. MasterFlow 4600 is normally placed at a flowable consistency to completely fill voids between 20mm and 150mm.

RECOMMENDED FOR:
MasterFlow 4600 is used for all ultra-high precision, non-shrink grouting applications with clearances of 15mm or more, particularly those requiring maximum dynamic load bearing and impact resistance such as:
- Critical equipment baseplates, soleplates & columns.
- Crane rails, ball mills, crushers.
- On-shore wind turbines requiring high torsional and dynamic load resistance.
- Rolling, stamping, drawing and finishing mills for the steel and aluminium industries.
- Turbines, generators, pumps and centrifugal compressors.
- “H” shaped steel columns, steel tube columns.
- Applications requiring ultra-high early compressive strengths and ultimate compressive strengths.
- High flow for full compaction even in areas with congested reinforcement.

FEATURES AND BENEFITS:
- Iron reinforced - contains inert iron aggregate as internal reinforcement. Provides improved resistance to heavy impact, vertical and horizontal repetitive loading as well as rotational torque.
- High early strength - ensures rapid commissioning of new equipment and structures.
- High ultimate strength and resistance to dynamic loads - ensures permanence of the installation under static and repetitive loads.
- Flowable long life grout - easy to grout intricate spaces normally inaccessible by conventional grouting techniques.
- Extended working time - facilitates grouting of large or difficult placements in a single pour, often without the use of a pump.
- Pumpable - greater volumes of grout can be mixed and handled with less labour.
- Dense, non-shrink grout - hardens free of bleeding, settlement and drying shrinkage, ensuring tight contact with all grouted surfaces.
- Compliance with codes - meets the non-shrink requirements of ASTM C1090 and CRD-C 621, Corps of Engineers Specification for Non Shrink Grout; tested to the requirements of AS1478.2 “Methods of sampling and testing admixtures for concrete, mortar and grout”.

BASF® 4600
Cementitious ultra high strength, non-shrink, iron reinforced precision grout
ESTIMATING DATA:
One 20 kg bag of MasterFlow 4600 mixed according to directions will yield the following consistency grouts at 20°C:
Flowable – 8.7 litres, approx.

PACKAGING:
MasterFlow 4600 is packaged in 20 kg bags.
MasterFlow® 9200

Ultra high strength, cement based grout with applied nanotechnology for grouting onshore wind turbine installations

DESCRIPTION:
MasterFlow 9200 is a shrinkage compensated, cement based grout which when mixed with water, produces a homogeneous, flowable and pumpable grout with exceptionally high early and final strength and modulus. The product exhibits increased ductility, fatigue and impact resistance. Latest best binder packing models and applied nanotechnology produces a grout with superior technical performance, exceptional rheological properties, and uniquely, extended open times.

RECOMMENDED FOR:
MasterFlow 9200 has been especially formulated for:
- Grouting of wind turbine installations, that are installed using pre-stressing techniques e.g. base plate grouting of onshore wind turbines
- Installations where excellent fatigue resistance is required
- Grouting under very harsh conditions, e.g. temperatures as low as 2°C.
- Anchoring anchor bolts of wind turbine towers
- All void filling from 25mm to 300mm where high strength, high modulus, high ductility is important

FEATURES AND BENEFITS:
- Validated according the German DAfStb guideline (RILI): "Production and application of cement based flowing concrete and grouting mortar" (VeBMR).
- Ultra high compressive strength: class C100/115
- Ultra high modulus for exceptional stiffening properties
- Excellent fatigue resistance
- Quick return to service and removal of temporary supports due to high early strength build-up ≥ 55 MPa @ 24hrs at 20°C
- No segregation or bleeding to ensure consistent final physical performance and to prevent pump blockages
- Pumpable over long distances and large heights.
- Extended pot life of ≤ 2 hours
- Can be pumped or poured into complex areas or areas inaccessible to conventional grouting methods
- Specially graded sands and exceptional flow and low friction increases pump output, reduces installation times and costs as well as reducing pump pressures and wear
- Dust reduced for ease of handling
- Cement based
- Low chromate

ESTIMATING DATA:
1.875 to 2L water per 25kg bag. 25kg bag will yield for 11.4 litre of mixed mortar.

PACKAGING:
MasterFlow 9200 is supplied in 25kg bags.
MasterFlow® 9300

Ultra high strength, cement based grout with metallic aggregate and applied nanotechnology for grouting onshore wind turbine installations

DESCRIPTION:
MasterFlow 9300 is a shrinkage compensated, cement based grout which when mixed with water, produces a homogeneous, flowable and pumpable grout with exceptionally high early and final strength and modulus. The product contains special metallic aggregates for increased ductility, fatigue and impact resistance. Latest best binder packing models and applied nanotechnology produces a grout with superior technical performance, exceptional rheological properties, and uniquely, extended open times.

RECOMMENDED FOR:
MasterFlow 9300 has been especially formulated for:
- Grouting of windmill installations e.g. base plate grouting of onshore wind turbines
- Installations where excellent fatigue resistance is required
- Grouting under very harsh conditions, e.g. temperatures as low as 2°C.
- Anchoring anchor bolts of wind turbine towers
- All void filling from 30mm to 200mm where high strength, high modulus, high ductility is important

FEATURES AND BENEFITS:
- Ultra high compressive strength > 120Mpa
- Ultra high modulus for exceptional stiffening properties
- Excellent fatigue resistance
- Quick return to service and removal of temporary supports due to high early strength build-up ≥ 60 MPa @ 24hrs at 20°C
- No segregation or bleeding to ensure consistent final physical performance and to prevent pump blockages
- Contains metallic aggregates to provide increased resistance to dynamic and repetitive loading
- Pumpable over long distances and large heights.
- Extended pot life of ≥ 2 hours
- Can be pumped or poured into complex areas or areas inaccessible to conventional grouting methods
- Specially graded sands and exceptional flow and low friction increases pump output, reduces installation times and costs as well as reducing pump pressures and wear
- Dust reduced for ease of handling
- Cement based
- Low chromate

ESTIMATING DATA:
2.0 to 2.125L water per 25kg bag. 25kg bag will yield 10 litres of mixed mortar.

PACKAGING:
MasterFlow 9300 is supplied in 25kg bags.
MasterFlow® 9500

Ultra high strength, high modulus, cement based grout with applied nanotechnology for grouting offshore wind turbine installations

DESCRIPTION:
MasterFlow 9500 is a shrinkage compensated, cement based grout which when mixed with water, produces a homogeneous, flowable and pumpable grout with exceptionally high early and final strength and modulus. Latest best binder packing models and applied cementitious nanotechnology produces a grout with superior technical performance, exceptional rheological properties, and uniquely, extended open times.

RECOMMENDED FOR:
MasterFlow 9500 has been especially formulated for large scale, pump applications:
- Grouting of wind turbine installations, e.g. foundations, mono-piles, transition pieces of wind towers, where very good fatigue resistance is required
- Grouting under very harsh conditions, e.g. off-shore applications or below water grouting, at temperatures as low as 0°C
- All void filling from 25mm to 200mm thickness where high strength, high modulus is important (in other applications or where void dimensions of 10 - 25 mm are to be filled contact our technical department)
- Grouting of steel caisson annulus type applications

FEATURES AND BENEFITS:
- Approved for offshore use - “Statement of Compliance” by Det Norske Veritas (DNV)
- Ultra high mean compressive strength - ≥ 135MPa
- Ultra high modulus for exceptional stiffening properties - vertical and horizontal load transfer
- Very good fatigue resistance - able to cope with shear stress
- Quick return to service and removal of temporary supports - high early strength build-up (≥ 60 MPa @ 24hrs at 20°C)
- Wide temperature window - excellent strength gain at low temperatures @ 0°C at 24hrs
- No wash-out - suitable for below water grouting
- Pumpable - long distances and large heights
- Extended pot life of ≥ 4 hours - long working time
- Specially graded sands give exceptional flow and low friction increases pump output - reduces installation times and costs as well as reducing pump pressures and wear
- Dust reduced - ease of handling and safety of workers
- Cement based - easy clean up of equipment
- Available in special, watertight big bags - large scale application on the ocean

ESTIMATING DATA:
Approximately 2.2kg powder is needed for 1 litre of mixed grout. Water addition is 1.8-2L water per 25kg bag. 1000kg powder will yield approximately 450 litres of mixed grout.

PACKAGING:
MasterFlow 9500 is supplied in special watertight 1000kg bulka bags.
MasterFlow® 618
Heavy-duty epoxy resin grout

DESCRIPTION:
MasterFlow 618 is a solvent-free rapid hardening, high strength grout, based on modified epoxy resin and is designed for use as a precision, heavy-duty chocking grout for engineering applications. It is supplied as a two-component system consisting of epoxy resin, combined with inert fillers and a hardener, to produce a high viscosity flowable liquid grout.

RECOMMENDED FOR:
- Machinery with high dynamic loads and vibration.
- Backing of steel liners of ore crushing machinery in mines and quarries.
- In corrosive environments where chemicals, oils and solvents make cementitious grouts unsuitable.
- Production line equipment that must resume operations with minimum downtime.
- Machinery base plates, crane rails, anchor bolts hold down bolts and heavy equipment where tensile strength greater than cementitious systems can provide are required.

MasterFlow 618 is not recommended where the temperature of the grout after mixing and placing cannot be maintained above 15°C for a period of 48 hours to achieve full cure. Where a maximum thickness is greater than 50 mm; then additional aggregate may be incorporated (refer to BASF). Do not use where upper operating temperature is in excess of 100°C.

FEATURES AND BENEFITS:
- **Resistance to vibration and impact** - particularly applicable where cycles of compression/tension make cementitious grouts unsuitable.
- **Minimum shutdown** - high early and ultimate strengths.
- **Excellent chemical resistance** - maximum protection against attack from mineral acids, oils, fats, fuels, and strong alkali and salt solutions and lubricating and hydraulic oils.
- **High bond strength** - tenacious adhesion to prepared surfaces.
- **Supplied in pre-measured kits** - eliminates the need for complicated on-site measuring and ensured product performance.

ESTIMATING DATA:
MasterFlow 618 is available in a two-component pack of 10kg which yields 5.9 litres when mixed.

PACKAGING:
Two-component system available in a 10kg kit comprising:

<table>
<thead>
<tr>
<th>Part</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Resin</td>
<td>9.1kg</td>
</tr>
<tr>
<td>B Hardener</td>
<td>0.9kg</td>
</tr>
</tbody>
</table>
MasterFlow® 628
Multi-purpose epoxy resin grout

DESCRIPTION:
MasterFlow 628 is a solvent-free multi-purpose, high performance; epoxy resin based grouting system designed for structural applications in adverse weather conditions. MasterFlow 628 is supplied as a two-component system, with a high flow capability.

RECOMMENDED FOR:
- Areas requiring a moisture insensitive bond to the concrete substrate
- Bolt, rebar structure anchoring, hold down bolts
- Baseplates and machinery grouting
- Crane rails and tight clearances
- Exterior grouting and repair applications
- Jacket grouting applications

FEATURES AND BENEFITS:
- High early and ultimate strength - able to transfer load quickly
- High bond strength to correctly prepared concrete and to steel - resists vibration and highly repetitive loading
- No on-site measuring - supplied in pre-measured volumes ensuring product success
- Pumpable - fast application for complex and large baseplates
- Displaces water - Suitable for shallow depth underwater grouting
- Suitable for chemical exposure situations - excellent chemical resistance to oils, mineral acids, fuels and alkali solutions

ESTIMATING DATA:
MasterFlow 628 yields approximately 5.9 litres when mixed.

PACKAGING:
MasterFlow 628 system is available in a two-component 10kg kit comprising:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A Resin</td>
<td>9kg</td>
</tr>
<tr>
<td>Part B Hardener</td>
<td>1kg</td>
</tr>
</tbody>
</table>
MasterFlow® 648
High strength, high temperature, high flow epoxy resin grout

DESCRIPTION:
MasterFlow 648 is a solvent free, high flow, epoxy resin based grout. Supplied as a three component system, the final viscosity and flow characteristics can be adjusted to suit the particular project and application by varying the quantity of Part C that is used. MasterFlow 648 provides high early and seven day strengths, as well as excellent resistance to high operation temperatures and crack inducing vibration.

RECOMMENDED FOR:
- Precision alignment of machinery, compressors and prime movers in the gas transmission and other industries
- Foundations under crusher ball mills, slab tables and other equipment in the steel industry
- The pulp and paper, chemical processing, mining and power industries for a wide variety of applications
- Applications requiring fast turn around with high early and seven day compressive strengths

FEATURES AND BENEFITS:
- High flow - effective grouting of even narrow gaps and large baseplates
- High tensile and flexural strengths - efficient transfer of operational loads to foundation including high dynamic loads
- High strengths even at elevated temperatures - maintains alignment and level even with elevated baseplate temperatures
- High bond strength - protects machine from vibrations by effective dampening
- High resistance to creep - maintains alignment and level over long time
- Good chemical resistance - durable even when exposed to many industrial chemicals
- High early strengths - allows early load transfer and rapid commissioning of machines
- Variable fill ratio - flowability can be optimised for ease of application and to maximise the cost of effectiveness

ESTIMATING DATA:

<table>
<thead>
<tr>
<th>Mix Type</th>
<th>Parts A + B + C</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Flow</td>
<td>114.16kg (5 x Part C)</td>
<td>57 Litres</td>
</tr>
<tr>
<td>Hi-Flow</td>
<td>94.16kg (4 x Part C)</td>
<td>49.6 Litres</td>
</tr>
</tbody>
</table>

PACKAGING:
MasterFlow 648 is supplied as pre-portioned packs in kits, consisting of:

<table>
<thead>
<tr>
<th>Component</th>
<th>23.54kg Kit</th>
<th>114.16kg Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td>2.54kg</td>
<td>10.16kg</td>
</tr>
<tr>
<td>Part B</td>
<td>1.0kg</td>
<td>4.0kg</td>
</tr>
<tr>
<td>Part C</td>
<td>20kg</td>
<td>5 x 20kg</td>
</tr>
</tbody>
</table>
MasterFlow® 678
Deep-pour epoxy resin grout

DESCRIPTION:
MasterFlow 678 is a deep pour, low-exotherm, multi use three component epoxy grout. It can be used where deep sections of epoxy grout must be placed with low heat generation.

RECOMMENDED FOR:
- Deep-pour baseplate applications between 150mm and 450mm
- Repair of spalled concrete
- Rebuilding deteriorated curbs, bases and columns
- Anchoring bolts, rebar and dowels
- Exterior grouting and repairs

FEATURES AND BENEFITS:
- Long working time - facilitates proper placement
- Excellent creep resistance, even at high temperatures - will not deform under constant loads
- Low exotherm - results in minimal heat generation
- Reduces installation costs - precludes the necessity of rebar installation or multiple lifts
- Superior adhesion - positive bond to concrete and steel
- Ideal for deep pours - can be placed in lifts of up to 450mm thick

ESTIMATING DATA:
One kit yields 45 litres (0.045m³)

PACKAGING:
MasterFlow 678 is supplied in an 91.43kg kit, incorporating pre-measured units:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Part A</td>
<td>7.62kg</td>
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<tr>
<td>Part B</td>
<td>3.81kg</td>
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<tr>
<td>Part C</td>
<td>4 x 20kg</td>
</tr>
</tbody>
</table>
Coatings and Impregnants
<table>
<thead>
<tr>
<th>CHARACTERISTIC APPLICATION</th>
<th>Master Protect 181.2</th>
<th>Master Protect 8020 CI</th>
<th>Master Protect H 1150</th>
<th>Master Protect 160</th>
<th>Master Protect 355</th>
<th>Master Protect 150</th>
<th>Thickness (mm)</th>
<th>Minimum WFT per coat</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>●</td>
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<td>Flexible</td>
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<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Vapour Permeable</td>
<td></td>
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<tr>
<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Impregnant</td>
<td></td>
</tr>
<tr>
<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<td>●</td>
<td>Hydrophobic</td>
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<td>Coloured</td>
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<td></td>
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<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>CO₂ Resistant</td>
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</tr>
<tr>
<td></td>
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<td>●</td>
<td>Texture Finish</td>
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</table>
MasterProtect® 150
Elastic architectural acrylic anti-carbonation coating

DESCRIPTION:
MasterProtect 150 is a high grade, acrylic resin-based elastic coating for the long-term protection of concrete, mortar, masonry and natural stone against aggressive atmospheric attack including carbon dioxide and chloride ions. MasterProtect 150 may be used to bridge cracks or to impart a textured finish to surfaces.

RECOMMENDED FOR:
MasterProtect 150 is recommended for the protection of concrete facades, walls, bridges, balconies, etc against carbon dioxide or chloride ions ingress. MasterProtect 150 is particularly suited to elevations subject to slight cracking. The elasticity of the product ensures that slight cyclic movement is catered for without compromising the protective layer. The product may be applied to provide a smooth or textured finish

FEATURES AND BENEFITS:
- UV resistant - for long life
- Barrier to water ingress - waterproof and weatherproof
- Protects against Chloride ingress - high chloride ion resistance
- Anti-carbonation coating - high CO₂ and SO₂ diffusion resistance
- Allows structure to breathe - vapour permeable
- Dirt repellent - keeps structure looking good longer
- Decorative, durable protection - available in a wide colour range

ESTIMATING DATA:

<table>
<thead>
<tr>
<th>Application rate per coat</th>
<th>Film Thickness</th>
<th>Wet</th>
<th>Dry</th>
</tr>
</thead>
<tbody>
<tr>
<td>MasterProtect P 155</td>
<td>80 microns</td>
<td>40 microns</td>
<td></td>
</tr>
<tr>
<td>MasterProtect 150 2.8m²/L (0.35L/m²)</td>
<td>360 microns</td>
<td>160 microns</td>
<td></td>
</tr>
</tbody>
</table>

MasterProtect P 155 - 0.08L/m² per coat (12.5m²/L). Primer required for unpainted surfaces.
MasterProtect 150 - 0.33L/m² per coat (3.3m²/L). Two coats normally applied total wet film thickness 660 microns (approximate dry film thickness 330 microns)

NOTE: the above are theoretical and make no allowance for loss, wastage or substrate porosity.

PACKAGING:
MasterProtect 150 is available in 15 litre pails.
MasterProtect® 160
Architectural acrylic anti-carbonation coating

DESCRIPTION:
MasterProtect 160 is a tough high grade, solvent-free, single component acrylic-based product for the protection of concrete, mortar, masonry, natural stone & wood against aggressive environmental attack. MasterProtect 160 also achieves high aesthetics and is available in a wide range of colours.

RECOMMENDED FOR:
MasterProtect 160 is used for the protection of concrete facades, walls, bridge parapets, balconies, columns, beams, etc against carbonation of concrete.

MasterProtect 160 is used as a part of the BASF concrete repair systems.

MasterProtect 160 is recommended where architectural or decorative finishes are required.

FEATURES AND BENEFITS:
- Long life - UV resistant
- Barrier to water ingress - water resistant and weatherproof
- Allows structure to breathe - permeable to water vapour
- Keeps appearance for many years - dirt repellant
- Available in many colours - decorative
- Anti-carbonation coating - high CO₂ and SO₂ diffusion resistance which provides protection for the concrete substrate from carbonation of the concrete
- Excellent wetting and penetrating properties - no need for separate primer adheres well on absorbent substrates
- MasterProtect 160 is compatible with Hydrophobing materials - MasterProtect 355, and MasterProtect H 1100 can be used as a hydrophobic priming and protection system

ESTIMATING DATA:
Applied by a medium nap roller on a dense, low porosity substrate, the following consumption could be anticipated:

<table>
<thead>
<tr>
<th>Application rate per coat</th>
<th>Film Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wet</td>
</tr>
<tr>
<td>MasterProtect 160</td>
<td></td>
</tr>
<tr>
<td>2.8m²/L (0.35L/m²)</td>
<td>360 microns</td>
</tr>
</tbody>
</table>

Total application rate - two coats

PACKAGING:
MasterProtect 160 is available in 15 litre pails.
MasterProtect® 355
Silane/Siloxane based hydrophobic impregnant

DESCRIPTION:
MasterProtect 355 is a one-component, transparent, penetrating silane/siloxane impregnant. The product reacts chemically with a mineral substrate to form a surface that is repellent to water yet still permeable to water vapour. MasterProtect 355 protects and preserves the substrate without altering the natural surface texture or colour.

RECOMMENDED FOR:
MasterProtect 355 is recommended for weatherproofing exterior building brickwork, concrete, cement rendered concrete blocks, natural or cast stone etc.

FEATURES AND BENEFITS:
- Economical
- Deeply penetrating
- Permeable to vapour
- Inhibits mould growth
- Reduces unsightly staining
- One component, easy to apply
- Easily re-coated
- Protects against rain penetration
- Inhibits chloride ingress
- Reduces risk of efflorescence
- Effective on old and new surfaces
- Helps preserve natural colour and texture

The MasterProtect 355 molecules are very small and highly mobile. The relatively slow solvent evaporation rate at 25°C allows it to enter even the smallest pores. Its water vapour permeability allows the surface to “breathe” naturally. The application of MasterProtect 355 greatly extends the life and colour retention of brickwork. MasterProtect 355 can be used as an additional priming coat prior to acrylic protection barriers such as MasterProtect 160 against CO₂ and SO₂ attacks.

ESTIMATING DATA:
Coverage depends on absorbency and porosity of the substrate. On normal brickwork, coverage is approximately 4m² per litre. On very porous substrates, consumption may be up to 2m² per litre, on only slightly absorbent substrates it may reduce to 6m² per litre per coat. The quantity of material required for the second coat, when required, is approximately half of the quantity required for the first coat.

PACKAGING:
MasterProtect 355 is available 20 litre drums.
MasterProtect® H 1100
Hydrophobic impregnant based on isobutyltriethoxysilane

DESCRIPTION:
MasterProtect H 1100 is undiluted isobutyltriethoxysilane which is a clear low viscosity liquid. MasterProtect H 1100 has a very low molecular size, which ensures effective impregnation of concrete and masonry surfaces of 3-8 mm penetration into the pore structure. The impregnated MasterProtect H 1100 reacts with moisture or interstitial humidity and forms a permanently bonded hydrophobic lining on the pore-walls of the substrate.

The treated substrates are therefore highly hydrophobic and will inhibit ingress of liquid water and water borne aggressive agents such as chlorides. It also provides a barrier to the attack done by dissolved carbon dioxide by preventing carbonic acid entering the structure. MasterProtect H 1100 does not change the appearance of the base concrete after absorption and thus is ideal for architectural concrete elements.

MasterProtect H 1100 is also available with a red fugitive dye that provides an easy identification of the treated areas. The colour of the dye will disappear in approximately 1 week depending on the number of coats applied and the amount of UV light.

RECOMMENDED FOR:
MasterProtect H 1100 is recommended for application to most of the cementitious, masonry and mineral substrates above ground, not subject to hydrostatic pressure. Applications include treating the surfaces of:

- Bridge decks, abutments, piers, softs, etc.
- Beams, columns and walls of buildings
- Car parks
- Marine structures

FEATURES AND BENEFITS:
- Effective water repellence - durability. Inhibits ingress of water borne aggressive agents such as chlorides, giving long-term protection from reinforcement corrosion
- Minimises surface efflorescence - clean appearance of masonry surfaces
- Breathable - allows water vapour to move through the substrate
- Highly penetrative - ensures long-term effectiveness even on surfaces exposed to traffic (e.g.: car parks)

ESTIMATING DATA:
150 - 300 ml/m² (0.13 - 0.26 kg/m²) per coat depending on porosity of the substrate. Consumption can increase while treating tall or overhead structures, caused by loss due to wind.

PACKAGING:
MasterProtect H 1100 is available in 200 litre drums and 20 litre pails.
DESCRIPTION:
MasterProtect H 1150 is an aqueous cream of octyltriethylsilane water repelling impregnant for all types of cement based materials.

RECOMMENDED FOR:
MasterProtect H 1150 is recommended for impregnating reinforced concrete used in building bridges, roads and buildings. It can also be used as a primer for anti-carbonation paints such as MasterProtect 150 and 160.

MasterProtect H 1150 may be used on any concrete substrate that has been treated previously with alkoxy silane based impregnating agents.

FEATURES AND BENEFITS:
- Forms layer in the concrete matrix - stop water ingress but allows structure to breathe
- Forms a barrier to dissolved salts - prevents damage by salt spray
- Forms a barrier to carbonated waters (acid rain) - protection against damage from carbonation
- Dramatic reduction in water absorption - reduction in potential corrosion rate of reinforcing steel
- Primer for anti-carbonation paints - Provides good adhesion for subsequent paint coatings
- Low volatility - applies as a crème and thus suitable for application in exposed situations
- Thixotropic - may be applied without loss of material in windy or overhead conditions

ESTIMATING DATA:
Depending upon the condition and absorbency of the substrate and the impregnation depth required, the exact amount of material used may vary. Application rates of between 200-400ml/m² are recommended.

PACKAGING:
MasterProtect H 1150 is available in 20L pails.
MasterProtect® 8020CI
Surface applied migratory corrosion inhibitor

DESCRIPTION:
MasterProtect 8020CI is a surface applied corrosion inhibitor designed to migrate through even the densest concrete structures and form a layer on the steel reinforcing bars. MasterProtect 8020CI also protects a multitude of other metals including carbon steel, galvanised steel and aluminium. The corrosion inhibitor will migrate through concrete until it finds steel to create a protective layer on. MasterProtect 8020CI will stop the further corrosion of reinforcing metals and extend the service life of the structure.

RECOMMENDED FOR:
MasterProtect 8020CI is recommended for:
- All reinforced, precast, prestressed, post-tensioned or marine concrete structures
- Steel-reinforced concrete bridges, highways and parking decks, ramps and garages exposed to corrosive environments (carbonation, deicing salts and salt spray)
- Concrete piers, dams, offshore platforms, piles, pillars, pipe and utility poles
- Preventative maintenance, restoration and repair of all reinforced concrete commercial and civil engineered structures
- Cooling towers and potable water tanks

FEATURES AND BENEFITS:
- Migratory - penetrates the concrete to find and protect the reinforcing steel. Offers engineers, owners, contractors and government authorities a time proven corrosion inhibiting technology that will extend the life of all reinforced concrete structures.
- Slows existing corrosion - reduces corrosion rate of corroding steel not yet visible.
- Preventative treatment - provides protection in new structures where insufficient cover is an issue.
- Controls incipient anodes - stops the formation of incipient anodes at new to old concrete interface.
- Does not interfere with bond of repair mortars or coatings - can be used directly onto areas to be repaired.
- Forms passive layer underneath rust on steel - slows corrosion to allow for longer term repair strategy to be put in place.
- Easy application - spray, roller, squeegee or paint brush to any concrete surface.
- Water-based - for easy handling and application.
- Allows concrete to breathe and vapour to diffuse - is not a vapour barrier.
- Dual action inhibitor - protects both anodic and cathodic areas.
- No cure time is required - traffic may resume minutes after application if necessary.

ESTIMATING DATA:
Application rate 3.5m²/L. Dense substrates or application overhead may require two coats at the rate of 5.52m²/L.

PACKAGING:
MasterProtect 8020CI is supplied in 20 litre pails and 208 litre drums.
MasterProtect® 8000CI
Advanced organofunctional silane based corrosion inhibitor

DESCRIPTION:
MasterProtect 8000CI is a single component, ready to use, low viscosity, clear liquid which combines the proven effectiveness of penetrative silane treatments for the control of moisture and chloride ion ingress with advanced organofunctional corrosion inhibition.

RECOMMENDED FOR:
MasterProtect 8000CI is sprayed directly onto the surface of all uncoated steel reinforced concrete structures and buildings. It is particularly suited for the protection of:
- Bridge decks, piers columns and beams
- Multi-Storey carparks, building facades and balconies
- Marine jetties and structures

MasterProtect 8000CI is used as part of an overall repair strategy using MasterEmaco repair systems to mitigate corrosion of the embedded reinforcing steel and significantly reduce the possibility of ring or incipient anode induced corrosion of the reinforcing steel.

MasterProtect 8000CI can be used as a cost effective preventative measure before the onset of corrosion induced problems occur.

FEATURES AND BENEFITS:
- Prevents ingress of water borne contaminants - dramatically reduces chloride and carbonation induced corrosion of steel reinforcement
- Reinstates the passive layer on the outer layers of the reinforcing steel - increases resistance of steel to attack by chlorides already present in the structure. Works at the molecular level to effectively inhibit macrocell (rebar to rebar) and microcell (on the same rebar) corrosion
- Proven long term effectiveness - global references in service for more than 25 years
- Equally effective in high humidity conditions
- Chemically bonds to steel, cement paste and other silaceous material - will not wash or leach out during wetting / drying cycles, ensuring extended active life
- Does not discolor or change appearance of concrete - suitable for use on architectural concrete
- Breathable - allows vapour to leave structure but prevents ingress of liquid water

ESTIMATING DATA:
- 600ml/m² applied in two or three coats
  - Horizontal surfaces: 2 coats @ 300ml/m²
  - Vertical or overhead surfaces: 3 coats @ 200ml/m²

PACKAGING:
MasterProtect 8000CI is supplied in 20 litre drums.
MasterProtect® 1812
Epoxy coating

DESCRIPTION:
MasterProtect 1812 is a two component, solvent free, epoxy resin system to provide a high build coating that protects concrete and metal substrates from a wide range of aggressive chemicals.

RECOMMENDED FOR:
- Sewage treatment tanks & pipelines
- Effluent treatment tanks, drains, pipes
- Splash zone of off-shore structures.
- Structures exposed to sulphate attack
- Below ground protection to concrete & metal structures

MasterProtect 1812 is not recommended for surfaces in contact with potable water and food stuffs.

FEATURES AND BENEFITS:
- Resists abrasion - suitable for contact with grit containing streams
- Suitable for industrial and marine environments - resistant to a broad spectrum of chemicals
- High film build - durable
- Adheres to damp surfaces - suitable for marine environments
- Easy application - brush, roller or spray

ESTIMATING DATA:
Each 6 kg pack yields 3.6L on mixing and is sufficient to coat approximately 12m² in two coats each of 150 microns (300µ in two coats) on a fair faced concrete surface. Actual coverage depends on the numbers of coats, surface profile, loss and wastage.

PACKAGING:
MasterProtect 1812 is available in 6kg packs.
Curing Membranes & Release Agents
<table>
<thead>
<tr>
<th></th>
<th>MasterLife 796</th>
<th>MasterFinish 222</th>
<th>MasterKure CC-100WB</th>
<th>MasterKure 404</th>
<th>MasterKure 402</th>
<th>MasterKure 250</th>
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<tr>
<td>% Efficiency AS 3799</td>
<td>&gt;90</td>
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<td>Suitable for curing grout</td>
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MasterFinish® 380
Surface retarder for horizontal exposed aggregate concrete surfaces

DESCRIPTION:
MasterFinish 380 is a water-based chemical retarder used to expose the aggregate in horizontal concrete surfaces. MasterFinish 380 delays the set of the mortar paste on the surface to a controlled depth. MasterFinish 380 does not kill the set of the main concrete. The retarded mortar paste may be removed by washing and brushing after the set of the concrete to expose the aggregate.

RECOMMENDED FOR:
MasterFinish 380 is ideal for the production of exposed aggregate architectural finishes on horizontal surfaces or on pre-cast panels produced in a horizontal plane. MasterFinish 380 may also be used on concrete slabs prior to the granolithic application of a screed or thick layer surface topping. MasterFinish 380 is ideally suited for exposing aggregate on horizontal ‘kicker’ and construction joints thus ensuring good bonding of the fresh concrete, eliminating the requirement for mechanical preparation of these surfaces.

FEATURES AND BENEFITS:
- Controlled retardation of concrete surface - produces consistent textured and attractive exposed aggregate surface
- Easy to use - simple spray application
- Economic - only 250ml per square metre
- Consistent exposed aggregate surface - improved bond of fresh concrete to exposed surfaces
- Controlled retardation of surface set - no residual retardation to interfere with subsequent toppings or concrete pours
- Water based - simple clean up

ESTIMATING DATA:
MasterFinish 380 should be applied at a consumption of 0.2-0.3 L/m² (this will provide approximately 5 mm depth of retardation). In windy or hot conditions it is recommended to apply at a rate of 0.3 L/ m² and if unable to remove surface paste in the short term (6-8 hours) then two applications should be used.

PACKAGING:
MasterFinish 380 is available in 20 litre plastic cubes.
MasterKure® 111

Evaporation retardant and finishing aid for fresh concrete and cementitious materials

DESCRIPTION:
MasterKure 111 is an evaporation retardant and finishing aid, which assists in producing high quality concrete flatwork. It retards water evaporation during trowelling, regulates the surface condition of the slab and permits better adherence to finishing schedules. MasterKure 111 is especially effective in combating rapid drying conditions such as high temperatures, low humidity and high winds.

RECOMMENDED FOR:
All types of concrete slabs, toppings and finishing operations including:
- Concrete containing water reducing, retarding or accelerating admixtures
- Air-entrained concrete
- Tilt-up, lift slab, precast, or prestressed concrete
- Metallic or natural aggregate dry shakes and toppings
- Coloured concrete
- Burnished hard trowel, non-slip swirl-trowelled or wood float finishes
- Hand or machine finishing
- Membrane-type curing compounds, plastic sheeting, waterproof paper or ponding

MasterKure 111 is not a curing agent and has no effect on hardened concrete. Concrete must still be properly cured. Not recommended for use with static disseminating safety floor.

FEATURES AND BENEFITS:
- Reduces surface moisture evaporation - reduces or eliminates plastic shrinkage cracking and wind crusting by about 80% in wind and 40% in sunlight.
- Reduces potential for surface drying shrinkage crazing - Concrete quality improves with better and denser surface.
- Easier finishing - the surface closes better under the trowel giving an improved finish with less work.
- Reduces or eliminates crusting, stickiness and underlying sponginess - due to rapid evaporation leading to unevenness and poor surface texture.
- Essential hot weather concreting practice - to combat rapid-drying conditions and retard evaporation.

ESTIMATING DATA:
MasterKure 111 should be diluted with water in the ratio of 1 part MasterKure 111 to 9 parts water. 10 litres of diluted solution covers 50-100 m² depending on surface texture.

PACKAGING:
MasterKure 111 is available in 5 litre jerry cans, 20 litre plastic cubes and 205 litre drums.
MasterKure® 250
Water based hydrocarbon resin curing compound

DESCRIPTION:
MasterKure 250 is a water dispersed hydrocarbon resin based curing compound for newly placed concrete. It forms a flexible film, which prevents concrete drying out during the critical early stages of hydration thus ensuring satisfactory curing of the concrete. MasterKure 250 meets the water retention requirements of AS3799-1998 when applied at the recommended application rate. It has been formulated from special aliphatic resins and being water dispersed is low toxicity.

RECOMMENDED FOR:
- Large areas of external and internal concrete paving
- Concrete road pavements

Subsequent renders, toppings or coatings can be applied once sufficient time has elapsed to achieve full degradation of the MasterKure 250. Alternatively, if insufficient time has elapsed to achieve full degradation, renders, toppings or coatings can be applied once the MasterKure 250 has been mechanically removed.

FEATURES AND BENEFITS:
- Water based - low toxicity to operatives and no harmful effects on the environment
- Efficient curing of concrete - assists the development of strength, abrasion resistance and durability and reduces the likelihood of cracking or dusting at the surface
- Easy to use - convenient means of curing which requires no further attention, eliminates the problems of messy water curing or awkward polyethylene film
- Leaves surface as plain concrete - designed to begin degrading after 7 days exposure to UV light and lose adhesion to concrete after 6-8 weeks exposure to UV light
- Visible on site QA - can have a fugitive dye added to assist in achieving uniform coverage
- Simple removal - can be water jetted off after degradation, if required for subsequent coatings

ESTIMATING DATA:
Actual coverage depends on the texture and porosity of the surface. The recommended application rate is 5m² per litre.

PACKAGING:
MasterKure 250 is available in 20 litre and 200 litre drums with or without fugitive dye.
MasterKure® 402
Solvent based acrylic copolymer curing compound and sealer

DESCRIPTION:
MasterKure 402 is a clear, modified acrylic, membrane forming curing compound for use on plain or coloured concrete. MasterKure 402 meets and exceeds the moisture retention requirements of ASTM C-309 ‘Specification for Liquid Membrane-Forming Compounds’ when applied at the recommended application rate.

RECOMMENDED FOR:
- Curing plain and coloured fresh concrete floors, smooth or textured surfaces, indoor or outdoor applications
- Curing cementitious toppings and surface hardening finishes, particularly those containing metallic aggregates such as MasterTop 200
- Efficient curing compound for all cementitious grouts and mortars including MasterFlow iron and natural aggregate formulations
- Curing concrete that is subject to tiling or carpet adhesives without removal

FEATURES AND BENEFITS:
- Efficient curing of concrete - seals in moisture to facilitate complete hydration of cement matrix, maximising strength, increasing durability, improving wear resistance and minimising surface dusting
- Non-yellowing and safe - will not increase the slipperiness of concrete floors
- Easy to use - can be applied by brush, roller or spray and does not interfere with the adhesion of additional cement based toppings
- Multi-purpose - can be applied to smooth or rough surfaces
- Glossy - leaves polished glaze appearance on floor surface and can be recoated to provide a semi-gloss surface

ESTIMATING DATA:
Actual coverage depends on the texture and porosity of the surface.
For curing fresh concrete floors, apply at a rate of 5m² per litre to meet moisture retention requirements of ASTM C-309.
For sealing of existing plain or coloured concrete floors, coverage will vary depending on the texture and porosity and ambient temperatures however it will generally be in the range 7.5 to 10m² per litre per coat, two coats recommended.

PACKAGING:
MasterKure 402 is available in 20 litre and 200 litre drums.
MasterKure® 404

Water based acrylic copolymer curing compound and sealer

DESCRIPTION:
MasterKure 404 is a modified acrylic, membrane forming curing compound for use on plain or coloured concrete. MasterKure 404 meets and exceeds the moisture retention requirements of AS3799-1998 when applied at the recommended application rate.

RECOMMENDED USES:
- Curing plain and coloured fresh concrete floors, smooth or textured surfaces, indoor or outdoor applications
- Curing cementitious toppings and surface hardening finishes, particularly those containing metallic aggregates such as the MasterTop 200 range
- Efficiently curing all cementitious grouts and mortars including MasterFlow iron and natural aggregate formulations
- Curing of concrete that will have an additional topping such as cement based tile adhesives or toppings
- Curing of MasterEmaco concrete repair mortars prior to applying MasterProtect 150/160 coating

FEATURES AND BENEFITS:
- Efficient curing of concrete - seals in moisture to facilitate complete hydration of cement, resulting in maximum strength, increased durability, greater wear resistance and minimum surface dusting
- Non-yellowing and safe - will not increase the slipperiness of concrete floors
- Easy to use - can be applied by brush, roller or spray and does not interfere with the adhesion of additional cement based toppings
- Multi-purpose - can be applied to smooth or rough surfaces
- Glossy - leaves polished glazed appearance on floor surface and can be recoated to provide glossy surface

ESTIMATING DATA:
Actual coverage depends on the texture and porosity of the surface.

For curing fresh concrete floors, apply at a rate of 5m² per litre to meet moisture retention requirements of AS3799-1998.

For sealing of existing plain or coloured concrete floors, coverage will vary depending on the texture and porosity and ambient temperatures however it will generally be in the range 7.5 to 10m² per litre per coat, two coats recommended.

PACKAGING:
MasterKure 404 is available in 20 litre and 200 litre drums.
MasterKure® CC 100WB
Wax emulsion curing compound

DESCRIPTION:
MasterKure CC 100WB is a water based wax emulsion compound for curing fresh moist plain concrete. It forms a flexible film, which prevents concrete drying out during the critical early stages of hydration thus ensuring satisfactory curing of the concrete. MasterKure CC 100WB meets the requirements of AS 3799-1998, ‘Specification for Liquid Membrane - Forming Curing Compounds for Concrete’ when applied at the recommended application rate.

RECOMMENDED FOR:
- All types of external concrete paving
- Applications where damp curing is impracticable
- Concrete road pavements to prevent base course bonding to top course
- Use as a bond breaker in lift slab construction (two coats recommended)

MasterKure CC 100WB (clear or white) is not recommended for application when subsequent renders, toppings or coatings are to be applied and for coloured concrete finishes. MasterKure CC 100WB white is not recommended for coloured concrete finishes.

FEATURES AND BENEFITS:
- **Efficient curing of concrete** - assists the development of strength, abrasion resistance and durability and reduces the likelihood of cracking or dusting at the surface
- **Easy to use, quick** - means of curing which requires no further attention, eliminates the problems of messy water curing
- **Safe to use** - MasterKure 100 is non-flammable, non-corrosive, non-toxic and non-staining, less hazardous than some other methods of curing
- **Economical**

ESTIMATING DATA:
Actual coverage depends on the texture and porosity of the surface. The recommended application rate is 5m² per litre.

PACKAGING:
MasterKure CC 100WB is available in clear or white pigmented in 20 litre drums, 200 litre drums and 1000 litre pallecons.
**MasterFinish® RL 211**  
High quality water based surface consolidation and form release agent

**DESCRIPTION:**  
MasterFinish RL 211 is a ready-to-use, water based, non-toxic surface consolidation agent with excellent form-release properties. It has been specially formulated to reduce or eliminate surface imperfections in precast, prestressed and poured-in-place concrete and to give easy and complete release of concrete when applied to most types or forms or form liners.

**RECOMMENDED FOR:**  
- Application to all types of formwork including wood, metal, polyester or plywood where a good surface finish and optimum release are required
- MasterFinish RL 211 is not recommended for use on rubber-lined forms and where rapid-shuttering of forms (eg block making) is practised unless previously tested.

**FEATURES AND BENEFITS:**  
- Unique product to improve concrete off-form finish and ensure optimum release of formwork to enable Class 1 finishes to be achieved
- Improved concrete surface by reducing or eliminating surface voids and defects
- Minimises repair costs associated with patching or polishing to remove surface defects
- Improved surface quality often leads to better prices for finished product
- Non-staining, suitable even for concrete containing off-white cement
- Promotes easy and efficient stripping of forms
- Reduces the need for and cost of frequently cleaning forms by reducing the concrete residue.
- Easy and inexpensive to apply by spray
- Milky appearance means increased coverage by reducing overlapping applications
- Better and safer working environment
- Non-toxic, being made from "skin friendly" ester oils
- Biodegradable
- Suitable for use indoors or outdoors
- Provides a water repellent, rainproof, rust-inhibiting film to the formwork

**ESTIMATING DATA:**  
When applied by spray, recommended application method, at a constant 6 bars pressure on metallic or impervious material, the coverage rate is 40 - 100m²/litre. MasterFinish RL 211 is supplied ready-to-use and as such should not be mixed with other products.

**PACKAGING:**  
MasterFinish RL 211 is available in 20 and 200 litre drums.
MasterFinish® 222
General purpose form release agent

DESCRIPTION:
MasterFinish 222 is a low viscosity, chemical release agent for all types of concrete formwork. MasterFinish 222 reacts with the alkalis in water at the interface of the concrete and formwork to produce a thin film of lime soap, which breaks the bond enabling the formwork to be readily stripped.

RECOMMENDED FOR:
- Use on all types of formwork to enable clean stripping of forms and provide excellent architectural finishes
- Use in all concrete construction whether ‘in situ’, precast or prestressed
- Application to wheel barrows, trowels, buckets and other construction tools to facilitate cleaning and provide protection against rusting
- Application to metal windows and door frames to prevent adhesion of cement and mortar splashes during construction

FEATURES AND BENEFITS:
- No discolouration or blotchiness, provides stain-free, "off-form" architectural concrete finishes
- High coverage rate MasterFinish 222 is economical to use
- Suitable for use with normal, off-white and coloured concrete
- Leaves no residue on concrete finish
- Excellent "off-form" finish - produces a clear reproduction of formwork texture and sharp concrete features
- Reduces the incidence of air pockets and tendency of surface spalling at corners
- Will not impair the bond of subsequent applications of paint, render or tiles
- Preserves and waterproofs timber forms and inhibits rusting of steel forms in use or storage
- Protects aluminium windows and door frames from plaster and mortar splashes
- Easy to use, requires no mixing on site

ESTIMATING DATA:
Coverage will vary depending on the type of formwork, as a guide:

<table>
<thead>
<tr>
<th>Type of Formwork</th>
<th>m² per Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-absorbent</td>
<td>30-60</td>
</tr>
<tr>
<td>Smooth plywood or dense-grained timber</td>
<td>20-40</td>
</tr>
<tr>
<td>Porous or rough-sawn timber</td>
<td>16-24</td>
</tr>
</tbody>
</table>

PACKAGING:
MasterFinish 222 is available in 20 and 200 litre drums.
MasterLife® 736
Internal curing liquid admixture

DESCRIPTION:
MasterLife 736 is a liquid admixture for internal curing of concrete, shotcrete and mortars. MasterLife 736 when added to the mix produces an internal membrane, which protects fresh concrete, shotcrete and mortar by reducing water evaporation, to allow the concrete to cure. It also improves pumpability and stability of the fresh concrete, shotcrete or mortar.

RECOMMENDED FOR:
Applications for concrete, shotcrete or mortar where reduced water evaporation is required to allow concrete to cure in a similar manner to surface applied concrete curing compound.

FEATURES AND BENEFITS:
MasterLife 736 considerably improves the properties of fresh and hardened concrete.
- Protects against water evaporation of the fresh concrete, shotcrete or mortar
- Improves impermeability
- Improves abrasion resistance
- Improves bonding to substrate
- Has no negative influence on bonding if a second layer of concrete, shotcrete or mortar is applied (improves bonding between layers)
- Improves the hydration of all cement types
- Improves flexural strength
- Improves workability and pumpability, especially with low cement content and lack of fines in the mix, thus making workability more independent of the grading of the aggregates
- Reduces plastic shrinkage and long term drying shrinkage

ESTIMATING DATA:
MasterLife 736 recommended dose rate is 5 litres/m³.

PACKAGING:
MasterLife 736 is supplied in 20 and 205 litre drums, 1,000 litre pallecons and bulk.
<table>
<thead>
<tr>
<th>Material</th>
<th>Maximum layer thickness (mm)</th>
<th>Trowel</th>
<th>Pouring</th>
<th>Gunite</th>
<th>Vertical</th>
<th>Overhead</th>
<th>Horizontal</th>
<th>Comp. Strength at 28d (MPa)</th>
<th>Flex. Strength at 28d (MPa)</th>
<th>E. Modulus (GPa)</th>
<th>Density (kg/L)</th>
<th>Polymer Modified</th>
<th>Contains Corrosion Inhibitor</th>
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<tr>
<td>MasterEmaco P 5000AP</td>
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<td>Saturated surface dry</td>
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<td>Ready-to-use mortar</td>
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<td>Multi-purpose binder</td>
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<th>VISCOSITY</th>
<th>Paste</th>
<th>Medium</th>
<th>Low</th>
<th>Very low</th>
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<tr>
<td>Low</td>
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<tr>
<td>Medium</td>
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<td>High</td>
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<td>Very high</td>
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<table>
<thead>
<tr>
<th>CONCRETE REPAIR - RESINOUS</th>
<th>MasterBrace 1444</th>
<th>MasterBrace 1446</th>
<th>MasterEmaco 2525</th>
<th>MasterBrace P3500</th>
<th>MasterBrace 4000</th>
<th>MasterBrace 4500</th>
<th>MasterBrace Laminate Bar</th>
<th>MasterBrace Fibre</th>
<th>MasterInject 1380</th>
</tr>
</thead>
</table>
MasterEmaco® 2525
Solvent-free epoxy binder and structural adhesive

DESCRIPTION:
MasterEmaco 2525 is a solvent-free, high performance, versatile epoxy resin binder that can be used as a binder to produce a range of epoxy resin based mortars. MasterEmaco 2525 can be applied to both dry and damp surfaces and adheres to most substrates after proper preparation.

RECOMMENDED FOR:
- Structural bonding of new to old concrete
- Production of epoxy resin mortars for floor toppings
- Production of epoxy resin mortars to grout bolt holes
- Steel bonding
- Rapid structural repair of concrete
- Grouting dowels
- Priming of concrete floors prior to applying MasterTop Flooring System and/or MasterSeal systems to achieve structural bond

FEATURES AND BENEFITS:
- Adheres to wet or damp surfaces - wide application area
- Solvent free - low VOC and non-shrink
- Pre-proportioned packaging - no job site errors
- Multi-purpose binder - many uses
- Low viscosity - easy to apply as primer
- High abrasion and chemical resistance - can be used as wearing surface
- Approved to AS/NZS 4020:2002 - suitable for contact with Potable Water
- Cures hard at low temperatures - wide application range

ESTIMATING DATA:

<table>
<thead>
<tr>
<th>For 1 litre of binder - volume of F1 filler</th>
<th>Total Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grout</td>
<td>2 litres</td>
</tr>
<tr>
<td>Flowable Mortar</td>
<td>3 litres</td>
</tr>
<tr>
<td>Mortar</td>
<td>4 litres</td>
</tr>
<tr>
<td></td>
<td>2.25 litres</td>
</tr>
<tr>
<td></td>
<td>3 litres</td>
</tr>
<tr>
<td></td>
<td>4 litres</td>
</tr>
</tbody>
</table>

PACKAGING:
MasterEmaco 2525 is available in 2 and 20 litre kits:

<table>
<thead>
<tr>
<th>Kit Size</th>
<th>2 Litre</th>
<th>20 Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comprising:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>1.5 Litre</td>
<td>15 Litre</td>
</tr>
<tr>
<td>Part B</td>
<td>0.5 Litre</td>
<td>5 Litre</td>
</tr>
</tbody>
</table>
MasterEmaco® N 102CI
Cementitious trowel applied lightweight polymer modified repair mortar with active corrosion inhibition

DESCRIPTION:
MasterEmaco N102CI is a non-structural, single component, polymer modified, repair and re-profiling mortar. MasterEmaco N102CI when mixed with water is a mortar that contains special cements, graded sands, selected polymers to allow the mortar to be hand or trowel applied in thicknesses from 5mm to 100mm.

RECOMMENDED FOR:
• The non-structural repair of concrete elements like balconies edges, building facades, parapet walls, precast panels, and beam edges.
• It is ideal for general, non-structural patch repairs where high build properties allowing up to 100 mm thickness in one layer are required.
• Can be applied as a smoothing or levelling coat at only 5 mm thick on large vertical and overhead areas to achieve a more aesthetic finish e.g. prior to painting.
• Contains active corrosion inhibitors making it suitable for aggressive environments.
• MasterEmaco N102CI has active corrosion inhibition to help prevent incipient anodes forming and to preserve the reinforcing steel in the immediate area of the patch

FEATURES AND BENEFITS:
• Shrinkage compensation and corrosion inhibition - to minimise crack tendency and extend life of repair
• Smooth, creamy, non-slump mortar - easy to create profiles and corners without formwork
• High build capacity - can be applied 80-100mm in vertical applications or up to 70-80mm overhead in one layer
• Good strength development - exceeding requirement of Class R2 of EN1504 part 3
• Low modulus of elasticity - able to cope with the thermal movement of the structure
• Low chromate (Cr[VI] < 2 ppm) - reduces risk of skin allergies
• Chloride-free - does not increase chloride load on structure

ESTIMATING DATA:
One 20 Kg bag mixed with 4 litres of water has a volume of approximately 13 litres.

PACKAGING:
MasterEmaco N102CI is available in 20kg bags
**MasterEmaco® N 5100**  
Cementitious polymer modified thin layer fairing mortar

**DESCRIPTION:**  
MasterEmaco N 5100 is a concrete-grey, ready-to-use mortar based on hydraulic binders, high grade quartz sands and modified with synthetic polymers. It contains no chlorides or other salts that might cause corrosion or blooming.

**RECOMMENDED FOR:**  
MasterEmaco N 5100 is especially suitable for levelling uneven surfaces, filling honeycombs and pin holes. It can be used as a topping (render) of up to 3mm thick to face up masonry. MasterEmaco N 5100 is ideal for thin resurfacing of damaged concrete surfaces, such as in rain damaged slabs and for use in non-moving crack repairs.

**FEATURES AND BENEFITS:**  
- **Multi-purpose** - allows thin layer patching and feather edging.  
- **Strong adhesion** - bonds permanently to existing concrete.  
- **Thixotropic material** - quick and easy to apply by trowel vertically and overhead.  
- **Durable** - weatherproof and shrinkage compensated.  
- **Fast return to service** - high early strength and excellent bonding.

**ESTIMATING DATA:**  
A 20kg bag of MasterEmaco N 5100 mixed with 3-3.5 litres of water yields 11 litres (0.011m³), therefore material requirement is 5.5kg/m² @ 3mm thickness

**PACKAGING:**  
MasterEmaco N 5100 is available in 20kg bags.
MasterEmaco® N 5200CI

Universal, fast-setting, polymer modified, fibre reinforced, lightweight repair and levelling mortar with active corrosion inhibition

DESCRIPTION:
MasterEmaco N 5200CI is a universal, single component, polymer modified, medium strength, fast setting, repair, re-profiling and levelling mortar. MasterEmaco N 5200CI contains special cements, graded sands, selected polymers and fibres to reduce shrinkage and improve physical and application properties. When mixed with water, it forms a mortar with an exceptionally wide range of applications. MasterEmaco N 5200CI can easily be hand or trowel applied in thicknesses from 3mm to 100mm.

RECOMMENDED FOR:
MasterEmaco N 5200CI is used for the repair of concrete elements like balconies edges, building facades, parapet walls, precast panels, beam edges and stair nosings, particularly where fast setting and overcoating are required, rather than high strength. MasterEmaco N 5200CI can be applied as a smoothing or levelling coat at 3mm thick on large vertical and overhead areas to achieve a more aesthetic finish e.g. prior to painting. MasterEmaco N 5200CI can be applied in environments where active corrosion inhibition is required.

FEATURES AND BENEFITS:
- Shrinkage compensation systems and fibre reinforcement - minimise crack tendency
- Smooth, creamy, non-slump mortar - easy to create profiles and corners without formwork, without the need for an additional fairing coat
- Excellent high build capacity - can be applied 80 - 100 mm in vertical applications or 70 – 80 mm overhead in one layer
- Multi-use - fairing coat and patch repair mortar in one with active corrosion inhibition
- Fast setting - Sets in two hours in cold weather and can be over-coated in only 4 hours
- Good strength development - compressive strength of 45Mpa. Exceeds the requirements of Class R2 of EN1504 part 3
- Low modulus of elasticity - copes with thermal movement of structures
- Low chromate (Cr[VI] < 2 ppm) - low risk of skin irritation
- Chloride-free - does not add to chloride load of structure
- Low resistivity - Suitable for galvanic anode use

ESTIMATING DATA:
One 20kg bag will yield approximately 13 litres of mortar.

PACKAGING:
MasterEmaco N 5200CI is available in 20kg bags.
MasterEmaco® P 157
SBR polymer based bonding and polymer modifying agent for concrete and mortars

DESCRIPTION:
MasterEmaco P 157 is an aqueous emulsion of styrene-butadiene copolymer latex, specially formulated for use in cementitious mixtures to improve wear resistance, durability, waterproofing and bonding properties.

MasterEmaco P 157 is also compatible with sulphate-resisting or high alumina cement and gypsum plaster.

RECOMMENDED FOR:
- Use with cement as a bonding slurry
- In weather resistant external or interior renderings
- In floor screeds and toppings, or plasters for improved chemical resistance
- In repair of honeycombed and spalled concrete, beams and precast elements

FEATURES AND BENEFITS:
- Easy to use - add to mixing water to improve mortars and screeds
- Economical - can create a range of polymer modified mortars and screeds with simple variations with lower cement contents than non-modified mortars
- Improved workability - mortars easier to apply
- Addition of polymer - improved bonding and impermeability and resistance to salts and other chemicals
- Controlled shrinkage - reduced cracking tendency of modified mortars

ESTIMATING DATA:
See Data Sheet

PACKAGING:
MasterEmaco P 157 comes in 5 litre plastic jerry cans and 20 litre plastic cubes.
MasterEmaco® P 5000AP
Single component, cement based, multi-use, bonding and active protective primer

DESCRIPTION:
MasterEmaco P 5000AP active primer, not only reinstates a high pH environment it also contains active corrosion inhibiting additives for the protection of steel reinforcement in concrete. It can also be used as an adhesive bonding slurry for subsequent repair mortars. When mixed with water, it forms a slurry that can be applied by brush to the clean exposed reinforcement, or directly on the dampened, prepared concrete substrate when used as a bonding coat.

RECOMMENDED FOR:
MasterEmaco P 5000AP is used for the protection of steel reinforcement in concrete:
- When steel is visible and the available depth of cover is less than required
- When concrete is contaminated with chlorides
- In critical environments when extra protection is specified
- When the timing at the jobsite does not allow for the repair mortars to be applied immediately after cleaning the steel

MasterEmaco P 5000AP can also be used to aid bond and application properties of hand applied repair mortars in extreme thicknesses and conditions.

FEATURES AND BENEFITS:
- Meets all major international norms - for steel priming in concrete repair systems
- Excellent rust inhibiting properties - as it reinstates a high pH environment
- Contains active corrosion inhibitors - to further protect the steel
- Polymer modified - for additional adhesive bond to the steel and concrete
- Long life repairs - does not reduce adhesion of repair mortars to steel or concrete
- Wide compatibility - with steel reinforcing bars and concrete or repair mortars
- Fast curing - to save time and money
- Simply mixing - just add water and mix in the supplied packaging (mixing pail)
- Multi-use - can also be used as a bonding slurry to improve bond and application thicknesses of MasterEmaco repair mortars on prepared concrete surfaces
- Orange - for easy site control of reinforcement coverage
- Only use what is needed - supplied in re-usable air-tight containers
- Low hazard - low chromate (Cr[VI] < 2 ppm)

ESTIMATING DATA:
Approx. 1.5 kg of dry powder per m² and mm layer thickness. This consumption is theoretical and depends on the roughness of the substrate. It should be verified on each particular job by means of “in situ” tests.

PACKAGING:
MasterEmaco P 5000AP is available in 5kg plastic re-sealable pails.
MasterEmaco® S 488CI

Cementitious trowel applied shrinkage compensated structural repair mortar with active corrosion inhibition

DESCRIPTION:
MasterEmaco S 488CI is a ready-to-use, high strength repair mortar containing active corrosion inhibition. Mixed with water, it provides a rheoplastic, non-segregating, thixotropic mortar with high bond to steel and concrete.

MasterEmaco S 488CI is synthetic fibre reinforced. It does not contain metallic aggregate and is free of chlorides.

MasterEmaco S 488CI is a ready-to-use powder that merely has to be mixed with water to yield an easily workable, shrinkage compensating repair mortar.

MasterEmaco S 488CI is resistant to aggressive environmental elements such as seawater, carbon dioxide, air pollution etc.

MasterEmaco S 488CI mortar is shrinkage compensated both in the plastic and in the hardened state. It is impermeable and extremely durable even in aggressive conditions.

By virtue of its uniformly dispersed synthetic fibres, MasterEmaco S 488CI can be either sprayed or trowelled onto horizontal, vertical and also overhead sections.

RECOMMENDED FOR:
MasterEmaco S 488CI is recommended for repairs needing mortar layers up to 40mm in thickness, including:
- Maintenance works at ports or sea-areas.
- Maintenance works at mechanical industries, especially in conditions where mineral oils, lubricants, etc. are present.
- Protection of concrete against aggressive waters containing sulphates, sulphides, chlorides, etc.
- Repair of damaged concrete members.
- Repair of concrete members subjected to repetitive stresses.
- Repair of structural members (reinforced or pre-stressed beams under normal or eccentric stress).
- Vertical, overhead and horizontal applications.

FEATURES AND BENEFITS:
- Durable
- Highly impermeable
- Ready-to-use
- Shrinkage compensated
- Sprayable
- Sulphate resistant
- Excellent workability
- No added chloride
- Contains non-corroding synthetic fibres
- High early and final strengths
ESTIMATING DATA:
A 20kg bag of MasterEmaco S 488CI mixed with 3.2 litres of water yields 10.5 litres (0.0105m³), therefore material requirement is 19.1kg/m² at 10mm thickness.

PACKAGING:
MasterEmaco S 488CI is available in 20kg moisture resistant bags.
MasterEmaco® S 620
Cementitious hand or wet-spray applied repair mortar for aggressive environments

DESCRIPTION:
MasterEmaco S 620 is a ready-to-use, high Alumina cement based mortar. It is specially designed for sewer repair applications or where acid and/or abrasion resistance is required using hand or wet-spray applied systems.

RECOMMENDED FOR:
• Repairs to brick, cast in place concrete and precast concrete sewers
• Reinstating of linings of manholes, wet wells and other access ways
• Tunnel linings or other places where resistance to acidic waters is required

FEATURES AND BENEFITS:
• High Alumina clinker and cement - all ingredients reactive and form an acid resistant matrix
• Easy to use - requires only the addition of potable water for mixing for hand application or wet mix spray
• Self-healing - long term reactivity of matrix heals surface cracks increasing life of repair
• Good working time - over one hour at 21°C
• Controlled shrinkage - reduced cracking tendency

ESTIMATING DATA:
One 20kg bag of MasterEmaco S 620 mixed with 2.8-3.2L of water yields approximately 11 litres (0.011m³).
Refer to your BASF technical representative for further advice.

PACKAGING:
MasterEmaco S 620 is available in 20kg bags.
MasterEmaco® S 680
Cementitious spray applied repair mortar for aggressive environments

DESCRIPTION:
MasterEmaco S 680 is a ready-to-use, high alumina cement based shotcrete mix with reduced rebound. It is specially designed for sewer repair applications or where acid and/or abrasion resistance is required using dry shotcreting systems.

RECOMMENDED FOR:
- Repairs to brick, cast in place concrete and precast concrete sewers
- Reinstating linings of sewers after structural repair with MasterEmaco S 820CI
- Tunnel linings or other places where resistance to acidic waters is required

FEATURES AND BENEFITS:
- **High alumina clinker and cement** - all ingredients are reactive and form an acid resistant matrix
- **Easy to use** - requires only the addition of potable water for mixing or spraying
- **Self-healing** - long term reactivity of matrix heals surface cracks increasing repair life
- **Good working time** - over one hour at 21°C
- **Controlled shrinkage** - reduced cracking tendency

ESTIMATING DATA:
One 20kg bag of MasterEmaco S 680 mixed with water yields approximately 10.2 litres (0.0102m³).

Allowance must be made for rebound and cut off for finishing which will reduce the coverage accordingly.

An allowance of 10-15% can be made for rebound which assumes an experienced nozzleman and ideal conditions. For overhead spraying the rebound allowance may be increased to 10-50%. Refer to BASF for further advice.

PACKAGING:
MasterEmaco S 680 is available in 20kg bags.
MasterEmaco® S 820CI

Cementitious spray applied repair mortar with active corrosion inhibition

DESCRIPTION:
MasterEmaco S 820 CI is a ready-to-use, cement based shotcrete mix with reduced rebound and active corrosion inhibition. It is specially designed for civil and mining applications using either the wet or dry shotcreting systems.

RECOMMENDED FOR:
- Repairs to the underside of bridge decks, bridge piers and beams, tunnels, drains, sea walls, and culverts
- Reinstating of eroded concrete in sewers prior to the application of MasterEmaco S 680
- Tunnel linings and embankment stabilisation

FEATURES AND BENEFITS:
- **Active corrosion inhibition** - reduced possibility of incipient anodes and longer lasting patches. Made to order version available without corrosion inhibitor.
- **Easy to use** - requires only the addition of potable water for mixing or spraying
- **Versatile** - is easily sprayed using the wet mix shotcrete system or dry mix systems
- **Good working time** - over one hour at 21°C
- **Addition of polymer possible** - improved bonding and impermeability of hardened shotcrete
- **Controlled shrinkage** - reduced cracking tendency
- **Very low rebound and dust** - reduced cost and wastage

ESTIMATING DATA:
One 20kg bag of MasterEmaco S 820 CI mixed with water yields approximately 10.2 litres (0.0102m³).

Allowance must be made for rebound and cut off for finishing which will reduce the coverage accordingly.

Without allowing for cut-off, an allowance of 5-10% can be made for rebound. This is for an experienced nozzleman and ideal conditions. For overhead spraying the rebound allowance may be increased to 10-50%.

PACKAGING:
MasterEmaco S 820 CI is available in 20kg bags.
MasterEmaco® S 822CI
Cementitious spray applied repair mortar for cathodic protection overlays

DESCRIPTION:
MasterEmaco 822CI is a ready-to-use, cement based shotcrete mix with reduced rebound for cathodic overlays. It is specially designed for civil and mining applications using either the wet or dry shotcreting systems.

RECOMMENDED FOR:
Repairs to marine structures and the underside of bridge decks, bridge piers and beams, tunnels, drains, sea walls, and culverts where impressed current cathodic protection systems are used.

FEATURES AND BENEFITS:
- Easy to use - requires only the addition of potable water for mixing or spraying
- Economical - reduces handling and clean-up costs and speeds up repairs
- Versatile - is easily sprayed using the wet mix shotcrete system or dry mix systems
- Good working time - over one hour at 21°C
- Low resistivity - improves effectiveness of impressed current cathodic protection systems
- Controlled shrinkage - reduced cracking tendency
- Very low rebound and dust - reduced cost and wastage
- Made to order version available without corrosion inhibitor

ESTIMATING DATA:
One 20kg bag of MasterEmaco 822CI mixed with water yields approximately 10.2 litres (0.0102m³).

Allowance must be made for rebound and cut off for finishing which will reduce the coverage accordingly.

Without allowing for cut-off, an allowance of 5-10% can be made for rebound. This is for an experienced nozzleman and ideal conditions. For overhead spraying the rebound allowance may be increased to 10-50% depending on the admixtures used. Refer to your BASF Technical Representative for further advice.

PACKAGING:
MasterEmaco S 822CI is available in 20kg bags.
MasterEmaco® S 902
Cementitious rapid setting repair mortar for underwater applications

DESCRIPTION:
MasterEmaco S 902 is a ready-to-use; fast setting cement based underwater mortar. It was specifically developed for underwater repair and restoration work.

RECOMMENDED FOR:
- Repairing eroded concrete or timber piles, sea walls, wharves
- Repairing leaks or joints in marine structures, concrete reservoirs, swimming pools, pipelines, wells.

FEATURES AND BENEFITS:
- Rapid setting - quick, efficient repairs to areas exposed to wave and tide action
- Excellent adhesion - high bond strength to clean concrete and timber surfaces
- Easy to use - applied by hand
- Dense anti-washout mortar - resistant to wave action during placing
- Suitable for constant immersion - resistant to sulphurous ground waters
- Waterproof - provides a watertight seal when used to repair leaks or seal joints

ESTIMATING DATA:
A 20kg bag of MasterEmaco S 902 mixed with water yields 11.2 litres (0.0112m³)

PACKAGING:
MasterEmaco S 902 is available in 20kg moisture resistant bags.
MasterEmaco® S 5300CI

Lightweight, mid strength, polymer modified, fibre reinforced, structural repair mortar with active corrosion inhibition

DESCRIPTION:
MasterEmaco S 5300CI is a single component, lightweight, polymer modified, high build structural repair mortar. MasterEmaco S 5300CI has been specifically formulated to produce a mortar with the compressive strength and modulus characteristics defined in class R3 of EN 1504 part 3.

RECOMMENDED FOR:
MasterEmaco S 5300CI is used for the structural repair of medium strength concrete elements such as, balcony edges, soffits and decks, window ledges, lintels & beams or anywhere where concrete structures need to be repaired or reprofiled by hand.

FEATURES AND BENEFITS:
- Shrinkage compensation and fibre reinforcement - minimise crack tendency creating a longer lasting repair
- Medium strengths and lower modulus of elasticity - allows the repair of medium strength concrete without problems of differential movement
- Highly thixotropic and lightweight - allows single high build layers
- High build - applied up to 75 mm in vertical applications and 50 mm overhead
- Outstanding workability - easy to create profiles and corners without formwork
- Very low shrinkage - excellent crack resistance
- Durable and weather resistant - good water and chloride impermeability
- Low chromate (Cr[VI] < 2 ppm) - low risk of skin irritation
- Chloride-free - does not add to chloride load of contaminated structures
- Active corrosion inhibition - suitable for extreme environments

ESTIMATING DATA:
One 20kg bag will yield approximately 12.4 litres of mortar. Approx. 2.0 kg of mixed product per m² per mm layer thickness (approx. 1.8 kg of dry powder per m² and mm layer thickness). This consumption is theoretical and depends on the roughness of the support, wastage etc, for which reason it should be verified in each particular job by means of “in situ” tests.

PACKAGING:
MasterEmaco S 5300CI is available in 20kg bags.
**MasterEmaco® S 5400CI**

High-strength, shrinkage compensated, fibre reinforced, trowelable structural repair mortar with active corrosion inhibition

**DESCRIPTION:**
MasterEmaco S 5400CI is a single component, extra high-strength, high modulus, shrinkage compensated structural repair mortar that meets the requirements of the new European Norm EN 1504 part 3 class R4. It contains Portland cement, graded sands, selected polymer fibres and special additives to significantly reduce the risk and incidence of shrinkage cracking.

**RECOMMENDED FOR:**
MasterEmaco S 5400CI is used for the structural repair of concrete elements such as:
- Columns, piers and cross beams of all bridges
- Cooling towers and chimneys and other industrial environments
- Tunnels, pipes, outfalls and below ground construction in harsh ground conditions
- Marine structures, water treatment and sewage facilities

**FEATURES AND BENEFITS:**
- **Versatile** - can be applied in extreme environments where active corrosion inhibition is required
- **Shrinkage compensation systems and fibre reinforcement** - minimise crack tendency
- **Highly thixotropic** - can be applied up to 50 mm without the need of secondary reinforcement
- **High early and ultimate strengths** - matches high strength concrete found in structures
- **Outstanding workability** - easy placing and finishing for applicators
- **High modulus and excellent adhesion** - ensuring load transfer in structural repair
- **Excellent freeze/thaw resistance** - suitable for all climates
- **High carbonation resistance** - suitable for exposed repairs in urban environments
- **Sulphate resistant** - suitable for contact with ground waters
- **Very low permeability to water and chlorides** - protection of reinforcing steel
- **Low chromate (Cr[VI] < 2 ppm)** - low risk of skin irritation
- **Chloride-free** - does add to the chloride load in contaminated structures

**ESTIMATING DATA:**
One 20kg bag will yield approximately 10.5 litres of trowelable mortar. Approximately 2.2kg of mixed product per m² per mm layer thickness (approx. 2.2 kg of dry powder per m² and mm layer thickness). This consumption is theoretical and depends on the roughness of the support, amount of rebar, wastage etc, for which reason it should be verified in each particular job by means of “in situ” tests.

**PACKAGING:**
MasterEmaco S 5400CI is available in 20kg bags.
MasterEmaco® S 5440CI
Shrinkage compensated, flowable, structural repair mortar with active corrosion inhibition

DESCRIPTION:
MasterEmaco S 5440CI is a single component, extra high-strength, high modulus, shrinkage compensated structural repair mortar that meets the requirements of EN 1504 part 3 class R4. MasterEmaco S 5440CI contains Portland cement, graded sands and special additives to significantly reduce the risk and incidence of shrinkage cracking. When mixed with water, it forms a highly fluid mortar that can easily be pumped or poured into formwork.

RECOMMENDED FOR:
MasterEmaco S 5440CI is used for the structural repair of concrete elements such as:
- Columns, piers and cross beams of all bridges
- Cooling towers and chimneys and other industrial environments
- Marine structures, water treatment and sewerage facilities
- Tunnels, pipes, outfalls and all below ground construction especially in harsh ground conditions
- All form and pour repairs

FEATURES AND BENEFITS:
- Versatile - can be applied in extreme environments where active corrosion inhibition is required.
- Shrinkage compensated - minimises crack tendency.
- Highly fluid - can be applied by pump (eg Putzmeister SP11) or pouring into formwork.
- High early and ultimate strengths - matches high strength concrete found in structures.
- High modulus and excellent adhesion - ensuring load transfer in structural repair.
- Excellent freeze/thaw resistance - suitable for all climates.
- High carbonation resistance - suitable for exposed repairs in urban environments.
- Sulphate resistant - suitable for contact with ground waters.
- Very low permeability - protection of reinforcing steel.
- Low chromate (Cr[VI] < 2 ppm) - low risk of skin irritation.
- Chloride-free - does add to the chloride load in contaminated structures.

ESTIMATING DATA:
One 20kg bag will yield approximately 9.7 litres of mortar. Approx. 2.2 kg of mixed product per m² per mm layer thickness (approx. 2 kg of dry powder per m² and mm layer thickness). This consumption is theoretical and depends on the roughness of the support amount of rebar, wastage etc. It should be verified in each particular job by means of “in situ” tests.

PACKAGING:
MasterEmaco S 5440CI is available in 20kg bags.
MasterEmaco® T 288
Rapid setting trafficable repair mortar

DESCRIPTION:
MasterEmaco T 288 is a one component concrete repair and anchoring material which sets in 30 minutes and will accommodate rubber-tyre traffic 2 hours after placement. This product can be used indoors and outdoors for highway and heavy industrial repair jobs.

RECOMMENDED FOR:
• Bridge deck and highway overlays
• Concrete pavement joint repairs
• Airport runway light installations
• Full depth structural repairs
• Expansion device nosings
• Anchoring steel bridge and balcony railings
• Commercial freezer room repairs
• Loading dock repairs
• Parking deck and ramp repairs
• Heavy industrial repairs

FEATURES AND BENEFITS:
• Wide temperature application range - suitable for climates from very hot to very cold
• Rapid strength gain - fast return to service only 2 hours
• Chemically resistant - unaffected by deicing salts
• Thermal expansion/contraction rate similar to concrete - suitable for freeze thaw conditions
• Minimal drying shrinkage - long term volume stability and stability of patch
• Cement colour - patches have texture and look of concrete

NOTE: For best adhesion and under traffic conditions, use MasterEmaco 2525 epoxy bonding agent.

ESTIMATING DATA:
A 20kg bag of MasterEmaco T 288 mixed with 2.6 - 3 litres of clean water will yield approximately 10 litres of material.

PACKAGING:
MasterEmaco T 288 is packaged in 20kg moisture resistant bags.
MasterEmaco® T 545
Rapid setting trafficable repair mortar

DESCRIPTION:
MasterEmaco T 545 is a one-component concrete repair and anchoring material, which sets in 15 minutes and takes rubber-tyre traffic 45 minutes after placement. This product bonds to both concrete and masonry and can be used indoors and outdoors for highway and heavy industrial repair jobs.

RECOMMENDED FOR:
- Bridge deck and highway overlays
- Concrete pavement joint repairs
- Airport runway light installations
- Full-depth structural repairs
- Expansion device nosings
- Heavy industrial repairs
- Anchoring steel bridge and balcony railings
- Commercial freezer room repairs
- Loading dock repairs
- Parking deck and ramp repairs

FEATURES AND BENEFITS:
- Wide temperature application range - suitable for climates from very hot to very cold
- Rapid strength gain - fast return to service only 45 minutes
- Chemically bonds to concrete - long life of patches in trafficked areas
- Thermal expansion/contraction rate similar to concrete - suitable for freeze thaw conditions
- Minimal drying shrinkage - long term volume stability and stability of patch
- Cement colour - patches have texture and look of concrete
- No priming required - easy to use.

ESTIMATING DATA:
Note: WATER CONTENT IS CRITICAL.
A 20kg bag of MasterEmaco T 545 mixed with a maximum 1.4 litres of water produces a volume of approximately 0.01m³(10L). A 60% extension (12kg/bag) using 14mm, rounded, sound aggregate produces a volume of approximately 0.014m³(14L).

PACKAGING:
MasterEmaco T 545 is supplied in 20kg bags.
MasterEmaco® T 920CI
Cementitious high strength rapid setting trafficable repair mortar with active corrosion inhibitor

DESCRIPTION:
MasterEmaco T 920CI is a high strength shrinkage compensated micro concrete for the repair of concrete surfaces in both new and existing construction. Highly workable, this multi-purpose pea gravel mortar handles easily at 100mm slump and possesses excellent working time and superior performance.

RECOMMENDED FOR:
- Floor repair and overlay
- Pavement repair
- Traffic surface repair
- Repairs to structural members including pre-stressed and post-tensioned elements

FEATURES AND BENEFITS:
- High ultimate strength and abrasion resistance - durable trafficable surface up to twice the abrasion resistance of 25MPa concrete
- Extended working time - aids the finishing and/or enables the application of dry shake finishes
- Controlled shrinkage - reduced cracking tendency
- Active corrosion inhibition - long life repairs even in aggressive environments

NOTE: Minimum thickness 25 mm. Feather edging of repairs should be avoided, as this will compromise the durability. For best adhesion and under traffic conditions, use MasterEmaco 2525 epoxy bonding agent.

ESTIMATING DATA:
Approximately 2.0kg of MasterEmaco T 920CI mixed and placed as recommended is required per m² at 1mm thickness.

PACKAGING:
MasterEmaco T 920CI is available in 20kg moisture resistant bags.
MasterInject® 1380
Structural concrete bonding process injection resin

DESCRIPTION:
MasterInject 1380 is a two-component solventless, low-viscosity liquid adhesive for pressure injection grouting.

MasterInject 1380 was developed specifically for use with Structural Concrete Bonding Process (SCBP).

RECOMMENDED FOR:
- Structurally rebonding cracked concrete sections
- Filling porous or honeycombed concrete or grout
- Anchoring bolts, dowels and reinforcing bars
- Grouting areas pre-packed with aggregate to form bearing supports

FEATURES AND BENEFITS:
- Low viscosity - excellent penetration of fine fissures
- Resistance to creep and stress relaxation - due to high heat deflection temperature
- Fast cure rate - fast return to loaded conditions
- Bonds in wet and cold conditions - excellent adhesion even under adverse conditions

ESTIMATING DATA:
Usage is dependent on the crack volume and best determined by onsite trials.

PACKAGING:
MasterInject 1380 is available in 18kg (15 litre) kits.
MasterProtect® 810CP
Form and pour flowable mortar, for low resistivity environments

DESCRIPTION:
MasterProtect 810CP is a cementitious flowable mortar that is specifically formulated for galvanic and hybrid anodes used in cathodic protection of reinforced concrete structures and embedding discrete anodes used in impressed current cathodic protection installations. MasterProtect 810CP is especially developed for optimum life expectancy of these CP installations. MasterProtect 810CP is a blend of hydraulic cements, selected silica, modifying agents and special additives for pH buffering. When mixed with potable water, MasterProtect 810CP forms a flowable mortar with flow characteristics suited for steel congested form and pour applications.

RECOMMENDED FOR:
Encapsulating galvanic and hybrid anode systems and embedding discrete anodes used in impressed current cathodic protection installation.

FEATURES AND BENEFITS:
- Improved acid resistance compared to normal mortars against the chemicals created at the anode surface - long life of the anode encasement
- Low resistivity - enhances current flow through anode
- Expands during setting - guarantees good filling of the hole and embedding of the anode
- Long open time - allows for placing in complex form and pour situations

ESTIMATING DATA:
A 20kg bag of MasterProtect 810CP mixed with 3.6 litres of water yields 11 litres.

PACKAGING:
MasterProtect 810CP is available in 20kg moisture resistant paper bags.
DESCRIPTION:
MasterProtect 815CP is a cementitious grout/mortar that is specifically formulated for embedding discrete anodes used in impressed current cathodic protection installations of reinforced concrete. MasterProtect 815CP is especially developed for optimum life expectancy of these CP installations. MasterProtect 815CP powder is a blend of hydraulic cements, selected silica, modifying agents and special additives for pH buffering. When mixed with potable water, MasterProtect 815CP forms a fast-setting grout with extraordinary flow characteristics.

RECOMMENDED FOR:
MasterProtect 815CP is recommended for embedding discrete anodes used in impressed current cathodic protection installations.

FEATURES AND BENEFITS:
- Improved acid resistance compared to normal grouts against the chemicals created at the anode surface - long life of the anode encasement.
- Low resistivity - enhances current flow through anode.
- Expands during setting - guarantees good filling of the hole and embedding of the anode.
- Fast strength gain - set in under 30 minutes and 2.5MPa in 1 hour.

ESTIMATING DATA:
A 20kg bag of MasterProtect 815CP mixed with 4.2 litres of water yields 11.3 litres (0.0113m³).

PACKAGING:
MasterProtect 815CP is available in 20kg moisture resistant paper bags.
MasterProtect® 816CP

Free-flowing, long open time grout for embedding discrete anodes

DESCRIPTION:
MasterProtect 816CP is a cementitious grout/mortar that is specifically formulated for embedding discrete anodes used in impressed current cathodic protection installations of reinforced concrete. MasterProtect 816CP is especially developed for optimum life expectancy of these CP installations. MasterProtect 816CP is a blend of hydraulic cements, selected silica, modifying agents and special additives for pH buffering. When mixed with potable water, MasterProtect 816CP forms a long open timed grout with extraordinary flow characteristics.

RECOMMENDED FOR:
Embedding discrete anodes used in impressed current cathodic protection installations

FEATURES AND BENEFITS:
• Improved acid resistance compared to normal grouts against the chemicals created at the anode surface - long life of the anode encasement.
• Low resistivity - enhances current flow through anode.
• Expands during setting - guarantees good filling of the hole and embedding of the anode.
• Long open time - more than 1 hour of working time.

ESTIMATING DATA:
A 20kg bag of MasterProtect 816CP mixed with 3 litres of water yields 10.5 litres.

PACKAGING:
MasterProtect 816CP is available in 20kg moisture resistant paper bags.
MasterProtect® 8065CP  
MasterProtect® 8105CP  
Embedded galvanic anode for the protection of reinforcing steel

DESCRIPTION:  
MasterProtect 8065CP and 8105CP galvanic anodes are engineered discrete zinc anodes encased in a proprietary mortar. Integral galvanized tie wires permit easy connection to concrete reinforcement. As a key component of a complete concrete repair strategy, the sacrificial zinc core generates a small electrical current as it is consumed, protecting the reinforcing steel from accelerated corrosion.

RECOMMENDED FOR:  
- Where reinforced concrete or masonry structures will be repaired (interior or exterior)  
- Where chlorides are present in the structure  
- Wherever corrosion of reinforcing steel is possible in post-tensioned, pre-stressed, or conventionally reinforced structures

FEATURES AND BENEFITS:  
- **Chelation Driven System** - Prevents re-passivation of the zinc; Optimizes service life  
- **Lower pH mortar** - Non-caustic; Safe to handle  
- **High grade ASTM B418 type II zinc alloy** - Prolonged shelf life; Reduced tendency toward degradation  
- **Pre-twisted tie wires** - Proper stand-off from reinforcing steel; Ensures optimal current throw; Fast, easy installation  
- **Increased zinc surface area** - Optimizes anode performance; Extends service life; up to 50% more efficient than other anodes of same zinc weight  
- **Generates small current as it deteriorates, to protect reinforcing steel** - Extends service life and reduces maintenance costs  
- **Enhanced elimination of reaction by products** - Anode reactivates after wet/dry cycles; Longer service life  
- **Not affected by carbonation or auto-corrosion** - Greater shelf life

ESTIMATING DATA:  
Consult MasterProtect 8065CP and 8105CP Installation Guide.

PACKAGING:  
30 units per box for the 65 gram and 24 units for the 105 gram units.
MasterBrace® 1444
Thixotropic paste epoxy binder and adhesive

DESCRIPTION:
MasterBrace 1444 is a two pack, thixotropic epoxy binder which is ideal as a structural adhesive, bonding agent and binder for epoxy mortars. It is supplied as a solvent-free, smooth, non-sag paste.
MasterBrace 1444 is suited to applications in the water treatment industry and is approved for contact with potable water. Tested to AS/NZS 4020.

RECOMMENDED FOR:
- Application to horizontal or vertical surfaces to fill rough surfaces to 5mm
- As a primer for vertical surfaces for MasterSeal Traffic and Roof Systems
- Use as a general purpose adhesive for bonding and or repairing most materials
- Structural bonding BASF repair mortars and concrete on vertical surfaces
- Bonding metal to metal, concrete, timber etc.
- Patching and repairing cracks and defects in concrete and masonry with clearances of up to 5mm
- Mix with aggregates to provide a repair mortar or trowellable skim coat

FEATURES AND BENEFITS:
- High bond strength - tenacious adhesion to correctly prepared surfaces, including concrete, steel & timber
- Excellent chemical resistance - maximum protection against penetration or attack by water, mineral acids, oils, fats, fuels and strong alkali and salt solutions
- High early and ultimate strengths - a hard, tough adhesive which sets rapidly which helps to reduce production shutdown
- Non shrink - suitable for use in critical, precision applications
- Easy to use - on horizontal, vertical or overhead surfaces because of it’s paste consistency
- Solvent free - Low VOC
- Multi-purpose - can be applied to wet and damp surfaces
- Suitable for drinking water contact - approved AS/NZS 4020:2002 for contact with potable water

ESTIMATING DATA:
One litre of MasterBrace 1444 will cover approximately 1m² at 1mm of thickness.

PACKAGING:
MasterBrace 1444 is packed in a 1 litre kit comprising:

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td>0.75 Litre</td>
</tr>
<tr>
<td>Part B</td>
<td>0.25 Litre</td>
</tr>
</tbody>
</table>
**MasterBrace® 1446**

Thixotropic epoxy mortar and adhesive for high build applications

**DESCRIPTION:**
MasterBrace 1446 is a thixotropic paste adhesive based on a two component solvent free epoxy resin system. MasterBrace 1446 is designed as a structural adhesive and may be used to bond precast elements and segments. The consistency of the material ensures that minor variations in the bonding surfaces can be catered for without compromising the strength of the bond. MasterBrace 1446 may also be used as a polymer repair mortar and will bond to a wide variety of building and construction materials including concrete, masonry, timber and metals. MasterBrace 1446 is ideally suited to applications in the water treatment industry and is approved for contact with potable water tested to AS/NZS 4020. The individual product components A and B have been pigmented to provide a visual aid to mixing.

**RECOMMENDED FOR:**
- Structural bonding of precast elements
- Fixing injection ports for crack injection
- Bonding a wide variety of building and construction materials
- As a repair mortar, may be mixed with kiln dried sands for deep repairs (>25mm)
- Repair/bonding applications in potable water applications
- Abrasion resistant lining or repair

**FEATURES AND BENEFITS:**
- Low VOC - solvent free
- Multi-purpose - excellent adhesion to concrete steel and damp substrates
- Simple on-site QA - components pigmented & Pre-proportioned to aid mixing
- Wide application window - applicable at low temperatures
- Suitable for contact with potable water - approved AS/NZS 4020:2002 for contact with potable water

**ESTIMATING DATA:**
1.6kg of MasterBrace 1446 will cover approximately 1m² at 1mm of thickness. Estimated yield of a 15kg kit is 9.5 litres.

**PACKAGING:**
MasterBrace 1446 is a two component system available in a 15kg kit comprising:

<table>
<thead>
<tr>
<th>Kit Size</th>
<th>15kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td>10kg</td>
</tr>
<tr>
<td>Part B</td>
<td>5kg</td>
</tr>
</tbody>
</table>
MasterBrace® 4000
Epoxy resin adhesive for MasterBrace Laminate and Bar System

DESCRIPTION:
MasterBrace 4000 is the adhesive for the MasterBrace Laminate and Bar system and a filling compound for irregular surfaces. The MasterBrace Laminate and Bar Systems are based on ready to use carbon fibre laminate strips and bars that provide high tensile strength and are suitable for supplemental, externally bonded reinforcement of concrete, timber and masonry elements.

RECOMMENDED FOR:
MasterBrace 4000 is used as an adhesive for the MasterBrace Laminates and Bar to concrete, steel and wood.

FEATURES AND BENEFITS:
• Long pot life - allows installation of long laminates
• Thixotropic with high adhesive strength - self-supporting requiring no external propping and with minimal drips and runs
• High cured bond strength - creating true composite with substrate

ESTIMATING DATA:
A 5kg kit of MasterBrace 4000 yields approximately 3.3 litres. This is sufficient for approximately 1m² of laminate or a 10-12 m length of 80 mm wide laminate.

PACKAGING:
MasterBrace 4000 is available in 5kg kits.
MasterBrace® 4500
High strength saturant for MasterBrace fabric sheets

DESCRIPTION:
MasterBrace 4500 is a 100% solids, long pot life pigmented, epoxy resin for saturation of MasterBrace Fibre Sheet to form in-situ FRP Composite. MasterBrace 4500 is part of the MasterBrace resin systems for the creation of composite strengthening.

RECOMMENDED FOR:
- MasterBrace 4500 is used to saturate the MasterBrace carbon, glass or aramid fabric sheets to create a composite with the concrete structure.
- MasterBrace fibre reinforced plastic composites can be used to increase flexural, shear, impact resistance, axial load capacity. MasterBrace systems can increase fatigue resistance, reduce crack propagation and can be used as part of a blast mitigation program.

FEATURES AND BENEFITS:
- Adheres to fabric and primed concrete substrates - allows fast creation of true composite with the concrete
- Solvent free - low VOC and non-shrink
- Easy application - low viscosity penetrates fabric easily
- Cures hard at low temperatures - wide application range

ESTIMATING DATA:
A 5 litre kit of MasterBrace 4500 will yield 5 litres.

PACKAGING:
MasterBrace 4500 is available in a 5 litre kit.
MasterBrace® P 3500
Epoxy primer for MasterBrace system

DESCRIPTION:
MasterBrace P 3500 is a two component solvent-less epoxy penetrating low viscosity primer.

RECOMMENDED FOR:
For use as a primer prior to the use of the MasterBrace 4000 adhesive when used in conjunction with MasterBrace Laminates and Bar and for MasterBrace sheets and MasterBrace 4500.

FEATURES AND BENEFITS:
- Excellent adhesion to concrete substrate - ensures transfer of loads
- Solvent free - low VOC and non-shrink
- Cures at low temperatures - suitable for a range of climates
- Maximizes long term adhesion - Longevity, especially for wet-dry cycles

ESTIMATING DATA:
Typical consumption of 4-6 m² per litre

PACKAGING:
MasterBrace P 3500 is available in a 5 lites packs of 3.75 litres for Part A and 1.25 litres for Part B
MasterBrace® Laminate and Bar
Carbon Fibre Reinforced Polymer (CFRP) system for structural strengthening of concrete and timber structures

DESCRIPTION:
MasterBrace Laminate is a ready to use pultruded, carbon fibre laminate, normally externally bonded to structures, to provide additional load bearing capacity. MasterBrace Bar is a ready to use pultruded carbon fibre bar, that is near surface mounted (NSM) into grooves cut into the cover concrete. They both provide a lightweight, high tensile strength material (higher than steel reinforcement used in the concrete industry) and is largely utilised for additional flexural reinforcement (ie plate bonding) of concrete and timber members, as part of the MasterBrace Laminate and Bar system.

RECOMMENDED FOR:
To add strength and reinforce structures with material that has a high tensile capacity, MasterBrace Laminate and Bar enables the traditional technique of plating (with steel plates) to be replaced with extremely light materials, that are far easier to install, and to:

- Increase the flexural capacity of beams and slabs
- Increase the general load-bearing capacity (e.g. structural conversion following an increase in loading conditions)
- Help reduce deflection of the overall structural element (increase in rigidity)
- Help increase the fatigue strength (reduced maintenance)
- Help to increase the crack resistance of a structure (increase in durability)

FEATURES AND BENEFITS:
- **Fast and easy installation** - reducing overall installation cost of strengthening
- **Durable** - non-corroding even if in contact with moisture
- **Thin section compared to traditional methods** - Low profile (thickness) does not impact on architectural aesthetics or reduce useable space
- **Simple design** - enables the amount of reinforcement to be calculated in relation to the performance required or the flow of stress
- **Customisable** - a range of sizes and grades available to optimize design requirements and suitable for near surface mounting in grooves
- **All laminates are supplied with a protective peel-ply to both faces** - reducing preparation costs, whilst delivering better adhesion to the substrate and to any subsequent coatings

PACKAGING:
Typical size of laminates are 50, 80, 100 and 120 mm wide, by 1.4 mm thick. Typically available in 100 m rolls (up to 30 kg in weight). Bar is available in 100 m rolls for 8 and 10 mm diameter, and pre-cut lengths for 12 and 16 mm diameter sizes.
MasterBrace® Fibre
Fibre Reinforced Polymer (FRP) system for structural strengthening of concrete and timber structures

DESCRIPTION:
MasterBrace Fibre sheet reinforcement materials are enveloped in MasterBrace 4500 resin to yield a range of high performance composites with many features.

RECOMMENDED FOR:
- Flexural and shear strengthening elements that may not be planar (flat)
- Increasing compressive strength via axial confinement of columns
- Seismic retrofitting of columns and piles for earthquake resistance
- Enhancement of fatigue resistance under repetitive loading conditions
- Walls, beams, slabs, silos, chimneys, tanks, pipes, tunnels, piles etc

FEATURES AND BENEFITS:
MasterBrace Fibres (in general):
- Lightweight and durable - easy to apply and non corroding
- High strength to thickness ratio - does not interfere with widths or thicknesses of members non-obtrusive

MasterBrace Carbon Fibre:
- Increased strength - for Flexure, Shear, Confinement & Fatigue enhancement and end anchoring of MasterBrace Laminates

MasterBrace Aramid Fibre:
- Increased strength - for impact resistance or Blast (Explosion) resistance

MasterBrace Glass Fibre:
- Increased strength - mainly for seismic strengthening

PACKAGING:
Typically MasterBrace fabric is supplied in rolls that are either 50 or 100 m long and up to 500 mm wide. Refer to specific material Performance Data tables on the technical data sheet for details.
Waterproofing Membranes
## WATERPROOFING MEMBRANES

<table>
<thead>
<tr>
<th>Waterproofing Systems (Primer, Membrane, with or without Wear coat, Topcoat)</th>
<th>Application</th>
<th>Component</th>
<th>UV Resistant</th>
<th>Internal Wet Areas</th>
<th>Compliance with AS4858</th>
<th>Below Grade / External Walls / Planter Boxes</th>
<th>Car Parks / Roof Decks</th>
<th>Potable Water Tanks</th>
<th>Roller / Trowel / Brush</th>
<th>Spray</th>
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<tbody>
<tr>
<td>MasterSeal Roof 3000 &amp; 3500*</td>
<td></td>
<td>Polyurethane / Polyurea</td>
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<tr>
<td>MasterSeal Traffic 2000HD &amp; 2500HD*</td>
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<td>Cement / Polymer</td>
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<tr>
<td>MasterSeal M 240SL &amp; M 240TX</td>
<td></td>
<td>Synthetic Resin</td>
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<td>MasterSeal HLM 5000SL &amp; HLM 5000TX</td>
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<td>Component</td>
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<td>MasterSeal M 820</td>
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<td>MasterSeal 540</td>
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<td>MasterSeal M 210SL &amp; M 210TIX</td>
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</tr>
</tbody>
</table>

### Liquid Applied

- MasterSeal 540
- MasterSeal HLM 5000SL & HLM 5000TX
- MasterSeal M 820
- MasterSeal M 240SL & M 240TX
- MasterSeal 540
- MasterSeal M 210SL & M 210TIX
- MasterSeal Roof 3000 & 3500*
MasterLife® 300D
Crystalline capillary waterproofing admixture

DESCRIPTION:
MasterLife 300D admixture is an integral crystalline capillary waterproofing admixture for concrete. It is designed for use in above and below grade applications.

RECOMMENDED FOR:
- Sewage and water treatment plants
- Liquid retaining structures
- Water reservoirs and tanks for potable water
- Swimming pools
- Foundations, basements, lift pits, podiums, balconies and roofs
- Parking structures
- Precast, prestressed and post-tensioned concrete
- Culverts
- Blockfill
- Tunnel and subway systems
- Shotcrete
- Concrete subjected to wet, harsh and aggressive environments

FEATURES AND BENEFITS:
- Integral addition for optimum performance
- Reduces concrete permeability
- Allows concrete to breathe
- Reduces penetration of water and other liquids
- Seals hairline cracks
- Resists positive and negative side hydrostatic pressure
- Protects against sewage and industrial wastes

ESTIMATING DATA:
The dosage for MasterLife 300D admixture is 2% by weight of binder

PACKAGING:
MasterLife 300D admixture is available in 5 x 4 kg dissolvable bags packed in a pail.
MasterSeal® 615

Water-based, single component, polyurethane modified, Class III membrane

DESCRIPTION:
MasterSeal 615 is a fibre enhanced one component water-based polyurethane membrane that has been designed for a range of waterproofing applications where the membrane is to be covered over with tiles, screeds, concrete beds etc.

Based on unique polyurethane technology, MasterSeal 615, provides a user friendly one component membrane that achieves good film build, with reinforced and elastomeric properties once the membrane is dried.

MasterSeal 615 offers excellent adhesion properties over building substrates including concrete, masonry, renders, cement sheeting, wet area sheet surfaces and plasterboard surfaces.

MasterSeal 615 meets the requirements of:
- AS/NZS 4858:2010 Wet Area Membranes as a Class III membrane (CSIRO Test Report. No.6805.4A)
- AS3740:2010 Waterproofing of Wet Areas Within Residential Buildings
- Green Building Council of Australia in accordance with SCAQMD Method 304-91 Determination of Volatile Organic Compounds (VOC)

RECOMMENDED FOR:
- General internal wet areas under tiles including bathrooms, shower alcoves, laundries, change rooms, etc
- External/internal light foot traffic areas under tiles such as podiums, terraces, balconies and deck areas
- Sandwich seal between existing and new substrate, eg old to new concrete; cement screeds over concrete and CFC surfaces
- Waterproofing applications requiring high vapour barrier

FEATURES AND BENEFITS:
- Excellent low water vapour transmission properties and is fully compatible with polymer modified cement based tile adhesives, screeds and renders
- Able to move with structure - elastomeric and flexible with good tensile strength
- Suitable for constantly wet conditions - once cured will not re-emulsify
- Unaffected by bathroom chemicals - excellent chemical resistance
- Fast drying - can be recoated just after 2 hours and serviceable after 24hrs @ 23°C
- Orange colour – makes on site QA simpler by clearly showing coated and uncoated areas
- Matched reinforced corner tapes MasterSeal 970, 960 & 950 - save time and cost, by eliminating need for corner sealants and mortar cants
- High viscosity thixotropic liquid - applicable for both horizontal and vertical surfaces (walls & floors)
ESTIMATING DATA:
A minimum of two coats is recommended to be applied. For optimum performance a total minimum coverage of 1.5 litres/m² is recommended, meaning one pail will cover approx 10m². This results in a Dry Film Thickness of 1.2mm.

PACKAGING:
MasterSeal 615 is available in 15 litre containers, with a net weight of 19kg.
MasterSeal® 540
Two component, cementitious acrylic waterproofing membrane

DESCRIPTION:
MasterSeal 540 is a two component flexible cementitious waterproof membrane ideal for use under tiles. MasterSeal 540 provides toughness and tensile strength through integral fibre reinforcement. Advanced acrylic polymers combined with cements and special fine fillers achieve an excellent flexible waterproof membrane barrier particularly suited for under tile applications.

RECOMMENDED FOR:
MasterSeal 540 is designed to be used as an effective waterproofing membrane under tiles on a variety of substrates. Applications include:
- Terraces and balconies
- Internal and external laundries
- Commercial kitchens
- Other incidental internal wet areas
- Suitable as a membrane for lining concrete tanks to be used for potable water
- Suitable for collection tanks for grey water.
- MasterSeal 540 meets the requirements of:
  - AS3740:2010 Waterproofing of Wet Areas Within Residential Buildings
  - AS 4020:2002 Suitable to be in contact with Potable water

FEATURES AND BENEFITS:
- Polymer modified - improved bond strength on substrates such as concrete, wallboard, cement sheeting, masonry and plywood
- Permeable to water vapours - allows surface to breathe, preventing buildup of moisture in structure, reducing maintenance
- Flexible - can withstand moderate movement of hairline cracks. Bridges cracks up to 1mm in width, reducing maintenance
- Flexible to minus 5°C - suitable for use at low temperatures
- Brushable consistency - easily applied by brush or spray
- Non-toxic - can be applied onto surfaces in contact with drinking water

ESTIMATING DATA:
The recommended coverage of MasterSeal 540 is 2 L/m² per coat to obtain an approximate wet film thickness of 2mm. Each kit of MasterSeal 540 yields 18 litres, meaning one kit will cover approx 9m² at 2mm thick, per coat. Two coats required.

Actual coverage depends upon the method of application, the texture and porosity of the surface. Therefore material requirement is approximately 2 kg/m² for a total dry film thickness of 1 mm (± 0.1mm) in two coatings.

Note: use only complete packs.

PACKAGING:
MasterSeal 540 is available in 25kg packs:
- 10kg of Part A in a plastic container
- 15kg or Part B in a paper bag
MasterSeal® HLM 5100TIX

Water-based, single component, bitumen free, liquid applied waterproofing membrane

DESCRIPTION:
MasterSeal HLM 5100TIX is a single component, bitumen free water based, polymer waterproofing membrane that cures by crosslinking to form a tough membrane. MasterSeal HLM 5100TIX protects structures from water penetration while remaining flexible to handle the nominal expansion and contraction of substrates.

MasterSeal HLM 5100TIX meets the requirements of:
- AS/NZS 4858:2010
- AS3740:2010
- Green Building Council of Australia in accordance with SCAQMD Method 304-91 Determination of Volatile Organic Compounds (VOC)

RECOMMENDED FOR:
MasterSeal HLM 5100TIX is used for waterproofing of vertical areas including but not limited to: exterior walls, below grade concrete and block work, planter boxes, lift pits and between concrete slab waterproofing applications.

MasterSeal HLM 5100TIX is not suitable for direct sticking of tiles; the application of a screed is recommended if tiling is desired. MasterSeal HLM 5100TIX is not suitable for lining water retaining structures.

FEATURES AND BENEFITS:
- Able to move with structure - elastomeric and flexible with good tensile strength
- Suitable for constantly wet conditions with drainage - once cured will not re-emulsify
- Inert when cured - resists bacterial attack and salts found in ground waters
- Monolithic - eliminates lapping, seaming, and precutting
- Tough and durable - long-term protection
- Good adhesion to a wide range of substrates - including concrete, render, masonry, fibre cement, sheet, timber, clay brick, concrete block, aerated concrete, and treated metal
- Root-resistant barrier - suitable for planter boxes and garden beds
- High viscosity thixotropic liquid - applicable for both horizontal and vertical surfaces (walls & floors)

ESTIMATING DATA:
Wet Film Thickness @ 1.5mm = 1m²/litre (1.2mm DFT)
Coverage per 15 litres is approximately 10m²

PACKAGING:
MasterSeal HLM 5100TIX available in 15 litre pails.
MasterSeal® HLM 5200SL

Water-based, single component, bitumen free, liquid applied waterproofing membrane

DESCRIPTION:
MasterSeal HLM 5200SL is a single component, bitumen free water based, polymer self-levelling waterproofing membrane that cures by crosslinking to form a tough membrane. MasterSeal HLM 5200SL protects structures from water penetration while remaining flexible to handle the nominal expansion and contraction of substrates.

MasterSeal HLM 5200SL meets the requirements of:

- AS/NZS 4858:2010
- AS3740:2010
- Green Building Council of Australia in accordance with SCAQMD Method 304-91 Determination of Volatile Organic Compounds (VOC)

RECOMMENDED FOR:
MasterSeal HLM 5200SL is used for waterproofing horizontal areas including but not limited to: exterior structures, below grade concrete and block work, planter boxes, landscaped decks, lift pits and between concrete slab waterproofing applications.

MasterSeal HLM 5200SL is not suitable for direct sticking of tiles; the application of a screed is recommended if tiling is desired. MasterSeal HLM 5200SL is not suitable for lining water retaining structures.

FEATURES AND BENEFITS:
- Able to move with structure - elastomeric and flexible with good tensile strength
- Suitable for constantly wet conditions with drainage - once cured will not re-emulsify
- Inert when cured - resists bacterial attack and salts found in ground waters
- Monolithic - eliminates lapping, seaming, and precutting
- Tough and durable - long-term protection
- Good adhesion to a wide range of substrates - including concrete, render, masonry, fibre cement, sheet, timber, clay brick, concrete block, aerated concrete, and treated metal
- Root-resistant barrier - suitable for planter boxes and garden beds

ESTIMATING DATA:
Wet Film Thickness @ 1.5mm = 1m²/litre (1.2mm DFT)
Coverage per 15 litres is approximately 10m²

PACKAGING:
MasterSeal HLM 5200SL available in 15 litre pails.
MasterSeal® Traffic 1500 MD
Medium duty traffic deck crack-bridging waterproofing system

DESCRIPTION:
MasterSeal Traffic 1500 MD is a liquid applied, crack bridging traffic deck waterproofing system based on advanced polymeric materials. It consists of a primer, an elastomeric single pack polyurethane waterproofing membrane and a polyurethane combination wear and top coat. The seamless coating has an attractive, skid resistant, UV and weather resistant finish which is easy to clean and maintain. It is resistant to spills of petrol, diesel oil, battery acid, de-icing salts and alkaline cleaners.

RECOMMENDED FOR:
MasterSeal Traffic 1500 MD is intended for use on exposed decks and ramps where moderate crack bridging and wear resistance are required. MasterSeal Traffic 1500 MD is ideal for foot traffic areas, podiums, carparks of condominiums or offices which have no public parking. MasterSeal Traffic 1500 MD is also used on intermediate decks underneath which are offices, sales rooms, storerooms etc.

FEATURES AND BENEFITS:
- Fast return to service - can be driven on 72 hours after system installation
- Crack bridging - old cracks
- Easy application - single pack application with squeegee making installation simple
- Monolithic - no welds laps or seams
- Skid resistant - profile can be altered to suit needs
- UV and weather resistant - suitable for external application
- Chemical resistant - to chemical found in car parks fuels, battery acid, alkaline cleaners
- Low dirt retention and colours available - aesthetic and easy to clean and maintain
SYSTEM BUILDUP:
Total thickness approx. 2.0-2.5mm
Consumption figures are a guide only and may be higher on rough or porous substrates

<table>
<thead>
<tr>
<th>Component</th>
<th>Product Code</th>
<th>Consumption Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primer Broadcasting</td>
<td>MasterEmaco 2525</td>
<td>0.3 - 0.5L/m² (2-3.3M²/L)</td>
</tr>
<tr>
<td></td>
<td>MasterTop Filler F5 or oven dried silica sand, (0.3-0.8mm)</td>
<td>0.8 - 1.0kg/m²</td>
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<tr>
<td>Membrane</td>
<td>MasterSeal M 210</td>
<td>1.3 - 1.8 L/m² (0.5 - 0.8m²/L)</td>
</tr>
<tr>
<td>Top Coat Broadcasting</td>
<td>MasterSeal TC 465</td>
<td>0.3 - 0.5L/m² (2 - 3.3m²/L)</td>
</tr>
<tr>
<td></td>
<td>MasterTop Filler F10 recommended or other oven dried silica sand, size 0.3 - 0.8mm</td>
<td>1.0 – 3.0kg/m²</td>
</tr>
<tr>
<td>Top Coat</td>
<td>MasterSeal TC 465 (per coat)</td>
<td>0.15 - 0.25L/m² (4-6m²/L)</td>
</tr>
</tbody>
</table>

APPLICATION:
For detailed, product specific application instructions, please see individual product data sheets and application guides.
MasterSeal® Traffic 2000 HD
High traffic deck crack-bridging waterproofing system

DESCRIPTION:
MasterSeal Traffic 2000 HD is a liquid applied, crack bridging traffic deck waterproofing system based on advanced polymeric materials. It consists of a primer, a hand applied elastomeric polyurethane waterproofing membrane, a polyurethane wear coat and a polyurethane top coat. The seamless coating has an attractive, skid resistant, UV and weather resistant finish which is easy to clean and maintain. It is resistant to spills of petrol, diesel oil, battery acid, de-icing salts and alkaline cleaners.

RECOMMENDED FOR:
MasterSeal Traffic 2000 HD is suitable for shopping centre car parks or public parking areas with high traffic densities.
MasterSeal Traffic 2000 HD is intended for use on exposed decks and ramps where maximum crack bridging and wear resistance are required. MasterSeal Traffic 2000 HD is also used on intermediate decks underneath which are offices, sales rooms, storerooms etc.

FEATURES AND BENEFITS:
- Fast return to service - can be driven on 48 hours after system installation
- Crack bridging - new and old cracks
- Separate waterproofing membrane and wear coats - long term protection of membrane and ease of repair
- Monolithic - no welds laps or seams
- Slip resistant - profile can be altered to suit needs
- Separate wearcoat - excellent wear resistance
- UV and weather resistant - suitable for external application
- Chemical resistance - to chemicals found in car parks fuels, battery acid, alkaline cleaners
- Very low dirt retention and colours available - aesthetic and easy to clean and maintain
### SYSTEM BUILDUP:

<table>
<thead>
<tr>
<th></th>
<th>Material Details</th>
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</thead>
<tbody>
<tr>
<td><strong>Primer</strong></td>
<td>MasterEmaco 2525, MasterTop Filler F5 or oven dried silica sand, (0.3 - 0.8mm)</td>
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<tr>
<td><strong>Broadcasting</strong></td>
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<tr>
<td><strong>Optional Adhesion Promoter</strong></td>
<td>MasterTop P 692, 0.05-0.1L/m² (10-20m²/L)</td>
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<tr>
<td><strong>Membrane</strong></td>
<td>MasterSeal M 210SL/TIX, 2.2 - 2.7L/m² (0.37 - 0.45m²/L)</td>
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<tr>
<td><strong>Wear Coat</strong></td>
<td>MasterSeal 882, MasterTop Filler F10 or oven dried silica sand (0.3-0.8mm)</td>
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<tr>
<td><strong>Broadcasting</strong></td>
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</tr>
<tr>
<td><strong>Top Coat</strong></td>
<td>MasterSeal TC 465, 0.4 – 0.65L/m² (1.5-2.5 m²/L)</td>
</tr>
</tbody>
</table>

Total thickness approx. 3.0 - 4.0mm  
Consumption figures are a guide only and may be higher on rough or porous substrates.

### APPLICATION:

For detailed, product specific application instructions, please see individual product data sheets and application guides.
MasterSeal® Traffic 2500 HD

Heavy duty traffic deck crack-bridging waterproofing system

DESCRIPTION:
MasterSeal Traffic 2500 HD is a liquid applied, crack bridging traffic deck waterproofing system based on advanced polymeric materials. It consists of a primer, a spray applied elastomeric polyurethane/polyurea Hybrid waterproofing membrane, a fast polyurethane wear coat and a polyaspartic or Polyurethane top coat. The seamless coating has an attractive, skid resistant, UV and weather resistant finish which is easy to clean and maintain. It is resistant to spills of petrol, diesel oil, battery acid, de-icing salts and alkaline cleaners.

RECOMMENDED FOR:
MasterSeal Traffic 2500 HD is intended for use on exposed decks and ramps where maximum crack bridging and wear resistance are required.
MasterSeal Traffic 2500 HD is suitable for shopping centre carparks or public parking areas with high traffic densities.
MasterSeal Traffic 2500 HD can be made very fast return to service by choosing different components.
MasterSeal Traffic 2500 HD is also used on intermediate decks underneath which are offices, sales rooms, storerooms etc.

FEATURES AND BENEFITS:
• Fast return to service - can be driven on in 18-24 hours after system installation
• Crack bridging - new and old cracks
• Separate waterproofing membrane and wear coats - long term protection of membrane and ease of repair
• Easy application - spray application making detailing simple
• Monolithic - no welds laps or seams
• Separate wearcoat - extended wear resistance to rubber tyred vehicles
• Slip resistant - profile can be altered to suit needs
• UV and weather resistant - suitable for external application
• Chemical resistant - to chemical found in car parks fuels, battery acid, alkaline cleaners
• Very low dirt retention and colours available - aesthetic and easy to clean and maintain
SYSTEM BUILDUP:

<table>
<thead>
<tr>
<th>Component</th>
<th>Material Details</th>
<th>Volume/Weight (m²)</th>
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<tbody>
<tr>
<td>Primer Broadcasting</td>
<td>MasterEmaco P 2525</td>
<td>0.3 - 0.5L/m²</td>
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<tr>
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<td>MasterTop Filler F4 or oven Dried Silica Sand (0.3 - 0.8mm)</td>
<td>0.8 - 1.0kg/m²</td>
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<tr>
<td>Optional Adhesion</td>
<td>MasterTop P 692</td>
<td>0.05 - 0.1kg/m²</td>
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<tr>
<td>Promoter</td>
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<td></td>
</tr>
<tr>
<td>Membrane</td>
<td>MasterSeal M 820</td>
<td>1.8 - 2.4kg/m²</td>
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<tr>
<td>Wear Coat Broadcasting</td>
<td>MasterSeal M 882, Ucrete Filler F10 or F20 recommended or oven Dried Silica Sand (0.3 - 0.8mm)</td>
<td>0.4 - 0.7L/m², 2.0 - 4.0kg/m²</td>
</tr>
<tr>
<td>Top Coat</td>
<td>MasterTop 1260, MasterSeal TC 465</td>
<td>0.2 - 0.4L/m², 0.4 - 0.6kg/m²</td>
</tr>
</tbody>
</table>

Total thickness approx. 4.0 - 4.5mm
Consumption figures are a guide only and may be higher on rough or porous substrates.

APPLICATION:
For detailed, product specific application instructions, please see individual product data sheets and application guides.
MasterSeal® Roof 3000
Liquid applied crack bridging waterproofing membrane for exposed situations

DESCRIPTION:
MasterSeal Roof 3000 is a liquid applied, crack bridging roof waterproofing system based on advanced polymeric materials. It consists of a primer, an elastomeric polyurethane waterproofing membrane, and a polyurethane top coat. The seamless coating has an attractive, UV and weather resistant finish which is easy to clean and maintain.

RECOMMENDED FOR:
MasterSeal Roof 3000 is intended for use on exposed roof slabs. MasterSeal Roof 3000 is also used on slabs with pedestrian or maintenance traffic.

FEATURES AND BENEFITS:
- Crack bridging - copes with existing and newly formed cracks
- Long life - UV and weather resistant
- Easy to apply - no pre-striping of cracks or joints, spray application of the membrane
- Attractive appearance - colours available
- Easy to clean and maintain - very low dirt retention

SYSTEM BUILD UP:
MasterSeal Roof 3000 is composed of:

<table>
<thead>
<tr>
<th>Primer Broadcasting</th>
<th>MasterEmaco 2525</th>
<th>0.3 - 0.5L/m²</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MasterTop F5 Filler or oven Dried Silica Sand (0.3 - 0.8mm)</td>
<td>0.8 - 1.0kg/m²</td>
</tr>
<tr>
<td>Membrane</td>
<td>MasterSeal M 210SL (Horizontal)</td>
<td>1.1 - 1.7L/m² WFT</td>
</tr>
<tr>
<td></td>
<td>MasterSeal M 210TIX (Vertical)</td>
<td>1.1 - 1.7L/m² WFT</td>
</tr>
<tr>
<td>Top Coat</td>
<td>MasterSeal TC 465</td>
<td>0.5 - 0.8kg/m²</td>
</tr>
</tbody>
</table>

Total thickness approx. 2.0mm (min)
Consumption figures are a guide only and may be higher on rough or porous substrates.

APPLICATION:
For detailed, product specific application instructions, please see individual product data sheets and application guides.
MasterSeal® Roof 3500
Liquid applied roof slab crack-bridging waterproofing system

DESCRIPTION:
MasterSeal Roof 3500 is a liquid applied, crack bridging roof waterproofing system based on advanced polymeric materials. It consists of a primer, an elastomeric polyurethane/polyurea hybrid waterproofing membrane, and a polyurethane top coat. The seamless coating has an attractive, UV and weather resistant finish which is easy to clean and maintain.

RECOMMENDED FOR:
MasterSeal Roof 3500 is intended for use on exposed roof slabs. MasterSeal Roof 3500 is also used on slabs with pedestrian and maintenance traffic.

FEATURES AND BENEFITS:
- Crack bridging - copes with existing and newly formed cracks
- Long life - UV and weather resistant
- Easy to apply - no pre-stripping of cracks or joints; spray application of the membrane
- Attractive appearance - colours available
- Easy to clean and maintain - very low dirt retention

SYSTEM BUILD UP:
MasterSeal Roof 3500 is composed of:

<table>
<thead>
<tr>
<th>Component</th>
<th>Product</th>
<th>Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primer Broadcasting</td>
<td>MasterEmaco 2525</td>
<td>0.3 - 0.5L/m²</td>
</tr>
<tr>
<td></td>
<td>MasterTop Filler F5 or oven Dried Silica Sand (0.3 - 0.8mm)</td>
<td>0.8 - 1.0kg/m²</td>
</tr>
<tr>
<td>Membrane</td>
<td>MasterSeal M 820</td>
<td>1.8 - 2.4kg/m²</td>
</tr>
<tr>
<td>Top Coat</td>
<td>MasterSeal TC 465</td>
<td>0.5 - 0.8kg/m²</td>
</tr>
</tbody>
</table>

Total thickness approx. 2.5mm (min)

Consumption figures are a guide only and may be higher on rough or porous substrates.

APPLICATION:
For detailed, product specific application instructions, please see individual product data sheets and application guides.
MasterSeal® M 210SL  
MasterSeal® M 210TIX

Single component, polyurethane solvent based waterproofing membrane

DESCRIPTION:
MasterSeal M 210 is a liquid applied single pack, highly elastic, moisture-cure polyurethane seamless waterproofing membrane. It creates a tough, continuously elastomeric membrane to achieve long term protection against water ingress. It is available in self leveling (SL) and thixotropic (TIX) versions.

RECOMMENDED FOR:
MasterSeal M 210 is used as waterproofing membrane in a variety of general concrete waterproofing applications including covered areas of commercial and industrial buildings and exterior surfaces subject to light vehicle or pedestrian traffic loads.

MasterSeal M210 provides durable attractive membrane to: Carpark decks, balconies, plaza decks, rooftops, plant rooms, inverted roofs, under tile beds and as base layer for BASF MasterSeal Traffic 1500 MD & Traffic 2000 HD and MasterSeal Roof 3000 Waterproofing systems.

MasterSeal M 210 membrane system can be applied to most clean, dry, stable surfaces including concrete, precast segments, fibre cement sheet, CFC, concrete masonry, brick, render, metals and some plastics.

MasterSeal M 210 meets the requirements of:
- AS/NZS 4654.1
- AS4858:2004
- Green Building Council of Australia in accordance with SCAQMD Method 304-91 Determination of Volatile Organic Compounds (VOC)

FEATURES AND BENEFITS:
- Monolithic waterproof - protects occupied areas below from water damage, no laps, welds or seams.
- Slip resistant surfaces - increase pedestrian and vehicular traffic safety.
- Seamless membrane - bridges existing cracks.
- Fully bonded membrane - eliminates water tracking if damaged.
- User friendly - easy application, simple repair procedure.

ESTIMATING DATA:
One pail of MasterSeal M 210 will cover an area approximately 14 m² for a DFT of 1mm. For more details, refer to MasterSeal Traffic 1500 MD & Traffic 2000 HD and MasterSeal Roof 3000 system data sheets and application guides.

PACKAGING:
MasterSeal M 210 is available in 15 litre units, weight is 19 kg.
MasterSeal® M 820
Two component, solvent free polyurethane/polyurea hybrid, spray applied waterproofing membrane

DESCRIPTION:
MasterSeal M 820 is a solvent free, two component, highly elastic and very fast curing waterproofing membrane. Due to its fast cure speed it can only be applied by special, two component spray equipment.

RECOMMENDED FOR:
MasterSeal M 820 is intended for use in general waterproofing applications such as car park decks, podium decks, retaining walls and cut and cover tunneling as part of the MasterSeal Traffic 2500 HD and MasterSeal Roof 3500 systems.

Using the appropriate primer, MasterSeal M 820 can be applied to most substrates including concrete, galvanized steel, aluminum, UPVC, glass reinforced polyester etc.

MasterSeal M 820 meets the requirements of:
- AS/NZS 4654.1
- AS4858:2004
- Green Building Council of Australia in accordance with SCAQMD Method 304-91 Determination of Volatile Organic Compounds (VOC)

FEATURES AND BENEFITS:
- Fast reacting spray application - easy to apply on complex details; both horizontal and vertical surfaces without runs.
- Monolithic - no laps, welds or seams.
- Crack bridging membrane - combination of Tensile strength and elongation of system makes it cope better with structural movement and cracks that occur after installation.
- High water vapour permeability - low risk of blistering in service.
- Solvent and monomeric isocyanate free - increased safety for applicators.
- Unaffected by standing water or ground water – suitable for constant water contact.
- Thermoset - does not soften at elevated temperatures encountered on a roof and remains elastic at low temperatures-Tg approx. -45°C – suitable for all Asia Pacific climates.
- Cost effective solution - very fast curing time saves time of application and labour costs.
- Long life - durable waterproofing membrane. Warrantable for up to 20 years (conditions apply).

ESTIMATING DATA:
MasterSeal M 820 is normally applied at 1.8 – 2.4 kg/m². This corresponds to a thickness of approx. 1.8 – 2.4mm. For more details, refer to MasterSeal Traffic 2500 HD and MasterSeal Roof 3500 system data sheets and application guides

PACKAGING:
MasterSeal M 820 is supplied in 400kg kits, 200kg of Part A and 200kg of Part B.
MasterSeal® M 882

Three component, solvent free polyaspartic wear coat for use in high traffic waterproofing systems

DESCRIPTION:
MasterSeal M 882 is a wear coat for use in car park deck waterproofing systems. It is a solvent free, 3-component polyaspartic that consists of a liquid part A and liquid part B and a filler to adjust the viscosity for use on horizontal and sloping applications. It has a low consumption for economic use and exhibits an excellent bond to the waterproofing membrane. MasterSeal M 882 is slightly elastic so that it can accommodate some movement of the deck. It has a tenacious hold onto the broadcast aggregate providing a hard wearing, skid resistant surface.

RECOMMENDED FOR:
MasterSeal M 882 is primarily intended for use as the wear coat in MasterSeal Traffic 2000 HD and 2500 HD car park deck waterproofing systems. It can also be used in other systems where its low consumption and ease of application together with its excellent mechanical properties can be used to advantage.

FEATURES AND BENEFITS:
• Long lasting non slip profile - tenacious hold to broadcast aggregate
• Withstands loads imposed by traffic - excellent bond to waterproofing membrane
• Suitable for prolonged use in car parks - resistant to fuels, battery acid and hydraulic oils

ESTIMATING DATA:
The consumption of MasterSeal M 882 is 400-700 microns WFT.

PACKAGING:
MasterSeal M 882 is supplied in 12L working packs, comprising:
- MasterSeal M 882 Part A - 4L
- MasterSeal M 882 Part B - 4L
- MasterTop F11 - 8L
MasterSeal® P 692
A single component, solvent-based polyurethane primer and adhesion promoter

DESCRIPTION:
MasterSeal P 692 is a solvented, single component, moisture curing polyurethane primer and adhesion promoter for use below and/or on MasterSeal waterproofing membranes.

RECOMMENDED FOR:
MasterSeal P 692 is designed for use as an adhesion promoting primer on MasterSeal membranes especially after they have been exposed to dew or moisture and when wear coats are to be applied. It is necessary in all cases if the spray applied membrane has been left for more than 8 hours or overnight and the next coat is the wear coat.

Its uses include the application of a new membrane to an aged membrane e.g. in repair applications. It can also be used on aged membranes when renewing or repairing the UV protective top coat.

MasterSeal P 692 can also be used as a primer on sand broadcast epoxy primers prior to the application of a spray applied membrane in applications where the membrane is permanently exposed to significant stress from vehicle movements or the primer has been left for more than 3 days exposed.

It is also optional between existing topcoat and a new topcoat unless the old topcoat has been weathered and shows signs of chalking. It may be used if the topcoat although relatively new has had significant site traffic and the topcoat had been damaged. It is not necessary in most cases between the topcoat and the wear coat.

FEATURES AND BENEFITS:
- **Excellent adhesion to aged membranes** - ideal for repair situations.
- **Adhesion promoter** - ensures good chemical bond between membrane and wear-coat especially if the membrane has been exposed to water, and in applications where the membrane is permanently exposed to water.
- **Rapid cure** - does not slow the progress of the job.
- **Low viscosity** - easy to apply and low consumption.

ESTIMATING DATA:
The consumption of MasterSeal P 692 is between 0.05 and 0.1 kg/m² depending on the condition and porosity of the substrate.

MasterTop P 692 will foam if applied too thickly and this will cause de-bonding between primer and subsequent coats.

PACKAGING:
MasterSeal P 692 is supplied in cans of 1 litre and 10 litres.
MasterSeal® TC 465
UV and weather resistant coating

DESCRIPTION:
MasterSeal TC 465 is a pigmented, single component, moisture curing, UV and weather resistant, protective top coat. It is based on high quality aliphatic polyurethane pre-polymers.

RECOMMENDED FOR:
MasterSeal TC 465 has a number of applications including the top coat in the MasterSeal Traffic and Roof Systems, slip resistant top coats for roofing applications and in balcony waterproofing.

FEATURES AND BENEFITS:
- Excellent UV and weather resistance - suitable for exposed conditions
- High gloss - easy to clean
- Fast curing - ready for foot traffic in 24 hours
- Highly elastic - will move with the structure
- Excellent abrasion resistance - suitable for high traffic movements
- Single component - simple to use
- Roller applied - no special equipment

ESTIMATING DATA:
MasterSeal TC 465 is normally applied at 150 to 250 microns (0.15 – 0.25mm WFT), equivalent to 4.0 to 6.66 m²/lt which equates to a DFT of 0.1-0.2mm.

Each pail will therefore cover between 75m² to 125m² depending upon surface profile and desired film thickness.

For MasterSeal Traffic and Roof Systems, the need to add sand for non-skid applications will require higher usage of the MasterSeal TC 465 coverage of at least 250 microns per coat is recommended.

PACKAGING:
MasterSeal TC 465 pail contains 20kg (19 litres).
Joint Sealants & Treatments
<table>
<thead>
<tr>
<th>JOINT SEALANTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shore A</strong></td>
</tr>
<tr>
<td><strong>2 Pack</strong></td>
</tr>
<tr>
<td><strong>Single Pack</strong></td>
</tr>
<tr>
<td><strong>External Use</strong></td>
</tr>
<tr>
<td><strong>Internal Use</strong></td>
</tr>
<tr>
<td><strong>MAF</strong></td>
</tr>
<tr>
<td><strong>Colours</strong></td>
</tr>
<tr>
<td><strong>Intense Traffic Pedestrians</strong></td>
</tr>
<tr>
<td><strong>Chemical Environs</strong></td>
</tr>
<tr>
<td><strong>General Purpose Floors</strong></td>
</tr>
</tbody>
</table>

**MasterSeal 912**
Swelling paste for construction joints

**MasterSeal 910**

**MasterSeal 900**

**MasterSeal CR 195**
50 ± 5

**MasterSeal NP 430**
35 ± 5

**MasterSeal CR 435**
75 ± 5

**MasterSeal 901**

**MasterSeal 909**

**MasterSeal 910 Swellable gasket for construction joints**

**MasterSeal 912 Swelling paste**

**MasterSeal 950/960/970**

**MAF Colours**

**Intense Traffic Pedestrians**

**Chemical Environs**

**General Purpose Floors**
MasterSeal® CR 195

High performance UV resistant, highly elastic polyurethane joint sealant

DESCRIPTION:
MasterSeal CR 195 is a one component, moisture curing, thixotropic, aliphatic polyurethane sealant. Aliphatic technology ensures MasterSeal CR 195 will be UV resistant, non-chalking, non-staining, self-cleaning and non-pick, resulting in unmatched durability.

RECOMMENDED FOR:
Active, exterior and interior joints that demand extreme UV resistance and long term colour integrity including but not limited to: expansion joints in buildings and civil structures above and below ground, construction joints, joints in precast concrete elements, external walling and cladding joints, infill panel joints, curtain walling, etc.

MasterSeal CR 195 can be used on both vertical and horizontal applications including trafficable surfaces on floors, panels, walls, window frames, curtain walls and precast panels.

Substrates include concrete, masonry, brick, aluminium and timber.

Pick resistance finds applications in shop fronts, prisons, schools and public amenities.

FEATURES AND BENEFITS:
- **Aliphatic UV stable polyurethane technology** - non-staining, non-yellowing, non-chalking, low dirt pickup, self-cleaning
- **Medium modulus** - excellent puncture and abrasion resistance
- **Improved gunability and workability** - easy tooling
- **Pick resistant** - security applications
- **Suitable for non-chlorinated water immersion situations** - no swelling or softening
- **Movement capability ±25%** - Expands and contracts with joint movement
- **Excellent chemical resistance** - ideal in food or petroleum environments
- **Non Toxic** - approved for potable water contact

PACKAGING:
20 x 600ml sausages to a carton.
**MasterSeal® CR 435**

**High performance chemically resistant polyurea hybrid joint sealant**

**DESCRIPTION:**
MasterSeal CR 435 is a two component, chemically curing, hybrid polyurea sealant. MasterSeal CR 435 exhibits high chemical resistance, moisture insensitivity during curing and is UV resistant, resulting in good durability.

**RECOMMENDED FOR:**
Active, exterior and interior joints that demand extreme chemical resistance. MasterSeal CR 435 is used in conjunction with Ucrete flooring surfaces where resistance to heat, moisture and chemicals is required. MasterSeal CR 435 can be used on horizontal applications including trafficable surfaces on floors and bunds. Substrates include concrete, polyurethane concrete, novolac epoxies and chemically resistant epoxies.

**FEATURES & BENEFITS:**
- **Chemically resistant UV stable polyurea technology** - non-staining, non-yellowing, non-chalking
- **Medium modulus** - excellent puncture and abrasion resistance
- **Improved gunability and workability** - easy tooling
- **Chemical cure** - cures independently of the ambient temperature or relative humidity
- **Movement capability ±25%** - expands and contracts with joint movement
- **Excellent chemical resistance** - ideal in food or petroleum environments
- **High Shore-A hardness** - excellent durability for high traffic situations

**ESTIMATING DATA:**

<table>
<thead>
<tr>
<th>Joint Size (mm)</th>
<th>Metres per Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 x 5</td>
<td>40</td>
</tr>
<tr>
<td>10 x 10</td>
<td>10</td>
</tr>
<tr>
<td>12 x 12</td>
<td>7</td>
</tr>
<tr>
<td>15 x 7.5</td>
<td>9</td>
</tr>
<tr>
<td>20 x 10</td>
<td>5</td>
</tr>
</tbody>
</table>

**PACKAGING:**
Material is supplied in 600 ml dual cartridges (Part A 300 ml: Part B 300 ml). There are 15 dual cartridges to a carton. 5 static mixers per carton.
MasterSeal® NP 430
High performance, UV resistant, highly elastic, modified silicon joint sealant

DESCRIPTION:
MasterSeal NP 430 is a one component, moisture curing, thixotropic modified silicone sealant. Modified silicone (MS) technology ensures MasterSeal NP 430 will be UV resistant, non-chalking, non-staining, and self-cleaning, resulting in unmatched durability.

RECOMMENDED FOR:
Active, exterior and interior joints that demand extreme UV resistance and long term colour integrity including but not limited to: expansion joints in buildings and civil structures above and below ground, construction joints, joints in precast concrete elements, external walling and cladding joints, infill panel joints, curtain walling, etc.

MasterSeal NP 430 can be used on both vertical and horizontal applications including trafficable surfaces on floors, panels, walls, window frames, curtain walls and precast panels.

Substrates include concrete, masonry, brick, aluminium and timber.

FEATURES & BENEFITS:
- UV stable MS technology - non-staining, non-yellowing, non-chalking, low dirt pickup, self-cleaning
- Low modulus - excellent puncture and abrasion resistance
- Improved gunability and workability - easy tooling
- Movement capability ±25% - expands and contracts with joint movement
- Excellent chemical resistance - ideal in food or petroleum environments
- Paintable - allows common acrylic paints to stick and to give the building an aesthetic appearance

ESTIMATING DATA:

<table>
<thead>
<tr>
<th>Joint Size (mm)</th>
<th>Metres per Litre</th>
<th>Metres per 600ml Sausage</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 x 5</td>
<td>40</td>
<td>24</td>
</tr>
<tr>
<td>10 x 10</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>12 x 12</td>
<td>7</td>
<td>4</td>
</tr>
<tr>
<td>15 x 7.5</td>
<td>9</td>
<td>5</td>
</tr>
<tr>
<td>20 x 10</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>25 x 12.5</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>30 x 15</td>
<td>2</td>
<td>1.3</td>
</tr>
</tbody>
</table>

PACKAGING:
12 x 600 ml sausages to a carton.
Colour: Grey
4 Universal Nozzles
MasterSeal® 901

Water swelling resin for crack injection and hose systems

DESCRIPTION:
MasterSeal 901 is a multi-component, solvent free, water swelling methacrylate vinyl ester based injection system that cures to form a flexible yet solid material with an excellent bond even to wet substrates. Depending on the degree of availability of moisture, the cured system swells up to 120% of its volume to act as an effective and permanent seal against ingress of water.

RECOMMENDED FOR:
MasterSeal 901 is recommended for sealing cracks, joints and crevices in concrete, rock and masonry to prevent water ingress. Applications include injection of:
- stabilised cracks and non-moving joints in structural concrete
- concrete construction joints (excluding expansion joints) using MasterSeal 909 injectable hose system. Please refer to MasterSeal 909 for more information.

FEATURES & BENEFITS:
- Swells in contact with water by up to 120% - prevents water ingress even when the crack width varies.
- Water molecules held by molecular attraction - captured water does not get transported through capillaries.
- Unaffected by cycles of swelling and shrinking - continues to perform over long time, despite exposure to wetting and drying cycles.
- Good bond to damp surfaces - advantage in damp structures.
- Adjustable reaction time - between 20 and 60 minutes to allow for deep penetration.

ESTIMATING DATA:
The quantity of MasterSeal 901 required is dependent on the total volume of the void to be grouted, absorption of the substrate, loss and wastage. A trial may be conducted on a typical area to get an approximate estimation.

PACKAGING:
MasterSeal 901 is supplied as a 22.066kg kit, comprising of:
- Resin - 2 x 10.0kg
- Accelerator - 2 x 1.0kg
- Hardener Powder - 3 x 22g
MasterSeal® 909
Re-injectable hose system for construction joints in concrete

DESCRIPTION:
MasterSeal 909 is an advanced injection hose system for installation in construction joints, ready for subsequent injection of cementitious or polymeric compounds to ensure watertightness.

It is not affected by low temperature and immersion in water.

RECOMMENDED FOR:
MasterSeal 909 is recommended for use in construction joints in all structures, which need to be injected to waterproof them, such as:

- Water retaining structures;
- Tunnels and basements;
- Buildings, bridge decks and other similar structures.

MasterSeal 909 is not recommended for use in expansion joints and in areas prone to significant settlements.

FEATURES & BENEFITS:
- Installation allows testing for water leaks - pre-injection with water shows areas of leakage and avoids unnecessary injection
- Hose is re-injectable - permits re-injection if leakage persists or reappears at a later date.
- Neoprene strips act as “one way valves” - prevents injection material from returning even under back pressure allowing for the hose to be cleaned and ready for later use.
- Solid inner core - does not collapse under concrete pressure and allows smooth flow of injected material.
- Chemically inert - does not deteriorate even if exposed to such injection materials as polyurethanes, vinyls esters, epoxies and cements
- Flexible - easy installation at corners without cutting and jointing.

PACKAGING:
MasterSeal 909 is packed in a carton including:

- Hose - 200 Lm
- Concrete Clips - 100
- Vent Hose (input and exhaust) - 20
MasterSeal® 910
Hydroswelling waterbars for joints

DESCRIPTION:
MasterSeal 910 is a hydroswelling waterbar, ready for installation in cold joints to render the joints leakproof. It is based on a blend of acrylate polymers and a unique hydroswelling polymer that acts by swelling on exposure to water, to form a seal.

RECOMMENDED FOR:
MasterSeal 910 is recommended for all construction joints exposed to hydrostatic pressure. Application areas include joints between:
- abutments of concrete and rock, masonry, etc
- rafts and walls in tunnels and basements
- steel and concrete pipes, precast elements, etc

FEATURES & BENEFITS:
- **Swells in contact with water by up to 150%** - prevents water ingress even when the joint width varies
- **Water molecules held by molecular attraction** - captured water does not get transported through capillaries thus stopping further water ingress
- **Controlled swelling** - low swelling pressure insufficient to damage concrete
- **Does not form foam or gas with water** - water absorption creates a durable seal. No air bubbles to breakdown and allow leaks
- **Reversible swelling process** - MasterSeal 910 will reabsorb water after dry periods and accommodate minor movements in the structure
- May be used in conjunction with MasterSeal 912 for rough surfaces

ESTIMATING DATA:

<table>
<thead>
<tr>
<th>Type 3</th>
<th>Size</th>
<th>Min Concrete Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>20mm x 10mm</td>
<td>Min. 10cm</td>
</tr>
</tbody>
</table>

Note: Do not butt-join runs of MasterSeal 910 going in the same direction (e.g. ends of rolls) and allow a 5cm parallel overlap. After installation, protect MasterSeal 910 and the joint area from dirt, sand, stones, rain, water and other liquids.

PACKAGING:
MasterSeal 910 packed in a carton - 20 mm x 10 mm: 10 m per roll x 6 rolls
MasterSeal® 912
Waterproof swelling paste

DESCRIPTION:
MasterSeal 912 is a single-component, moisture curing pre-polymer which is reswellable when in contact with water, suitable for the permanent sealing of construction joints in concrete structures.

RECOMMENDED FOR:
- Construction joints of every kind
- Connecting joints in sheet piling or diaphragm walls
- Sealing of bell butt joints
- Sealing wall penetrations for metal, plastic and concrete pipes, cable bushing
- Bonding of MasterSeal 910 swelling waterstops on very uneven or rough surfaces - MasterSeal 910 swelling waterstops are pressed strongly into the paste bead
- Surrounding steel reinforcement bars on pile heads

FEATURES & BENEFITS:
- Simple use - just gun along the joint
- High swelling capacity in contact with water - creates a water tight seal
- Highly resistant to chemicals and saline liquids - not affected by chemicals found in ground waters or the ocean
- Good adhesion to dry and moist surfaces - suitable for concrete, steel and plastics
- Reversible swelling process - joint will reseal after long dry periods

PACKAGING:
MasterSeal 912 swelling paste is supplied in 310ml cartridges.
MasterSeal® 950 / 960 / 970
Bond breaker, bandage tape & corners

DESCRIPTION:
Fleece and rubber tape for joints in internal wet areas.

RECOMMENDED FOR:
For internal wet areas such as showers, bathrooms and kitchens in residential and commercial buildings. Meets requirements of AS/NZS 4858 Class I, II and III for floor wall and wall joints.

It can also be used for any change of directions in planter boxes, retaining walls, etc.

FEATURES & BENEFITS:
- Special fleece-lined rubber tape - remains flexible for life of installation.
- Crack-bridging - when cracks in the substrates form after tile installation joint is protected.
- Impermeable to water - works with membrane to make water tight joints.
- Good adhesion to waterproofing products - such as MasterSeal 540, 615 and HLM 5100/5200.
- No need for corner beads or sealant - save time and cost, by eliminating need for corner sealants and mortar cants.

ESTIMATING DATA:
Usage based on number of corners and lineal meters of joints.

PACKAGING:
- MasterSeal 950, 270 degree corner (external corner) is sold in boxes of 10.
- MasterSeal 960, 90 degree corner (internal corner) is sold in boxes of 10.
- MasterSeal 970 tape is sold in rolls of 50 meters.