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<table>
<thead>
<tr>
<th>CHARACTERISTIC APPLICATION</th>
<th>Thickness (mm)</th>
<th>Minimum WFT per coat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Protect 1812</td>
<td>1.5</td>
<td>•</td>
</tr>
<tr>
<td>Master Protect 8000CI</td>
<td>0.2</td>
<td>•</td>
</tr>
<tr>
<td>Master Protect H 1150</td>
<td>Master Protect 350</td>
<td>•</td>
</tr>
<tr>
<td>Master Protect 150</td>
<td>0.23</td>
<td>•</td>
</tr>
</tbody>
</table>

- Flexible
- Vapour Permeable
- Impregnant
- Hydrophobic
- UV Resistant
- Coloured
- CO₂ Resistant
- SO₂ Resistant
- Sewage Resistant
- Potable Water Suitable
- Sulphuric Acid Resistant
- Roller
- Brush
- Spray
- Texture Finish
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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wet</td>
</tr>
<tr>
<td>MasterProtect P155</td>
<td>80 microns</td>
</tr>
<tr>
<td>2.8m²/L (0.35L/m²)</td>
<td>360 microns</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 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 "breath" 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, soffits, 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.
MasterProtect® H 1150
Silane based thixotropic paste hydrophobic impregnant

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 alkoxysilane 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 discolour 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.