Quick Reference Guide

Advanced chemical solutions for construction with more than 100 years experience.
## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Admixture Systems</td>
<td>3</td>
</tr>
<tr>
<td>– Super Plasticizers</td>
<td>3</td>
</tr>
<tr>
<td>– Plasticizers</td>
<td>3</td>
</tr>
<tr>
<td>– Retarders</td>
<td>3</td>
</tr>
<tr>
<td>– Accelerators</td>
<td>3</td>
</tr>
<tr>
<td>– Air Entrainers</td>
<td>3</td>
</tr>
<tr>
<td>– Specialties / Others</td>
<td>4</td>
</tr>
<tr>
<td>– Bonding Agents</td>
<td>4</td>
</tr>
<tr>
<td>– Curing Compounds</td>
<td>4</td>
</tr>
<tr>
<td>– Form Release Agents</td>
<td>4</td>
</tr>
<tr>
<td>– Synthetic Fibers</td>
<td>4</td>
</tr>
<tr>
<td>2. Underground Construction</td>
<td>5</td>
</tr>
<tr>
<td>– Sprayed Concrete Products</td>
<td>5</td>
</tr>
<tr>
<td>– UGC Injection Products</td>
<td>5</td>
</tr>
<tr>
<td>3. Concrete Repair and Protection</td>
<td>6</td>
</tr>
<tr>
<td>– Bonding Promoters</td>
<td>6</td>
</tr>
<tr>
<td>– Bonding Systems</td>
<td>6</td>
</tr>
<tr>
<td>– Curing Compounds</td>
<td>6</td>
</tr>
<tr>
<td>– Form Release Agents</td>
<td>6</td>
</tr>
<tr>
<td>– Synthetic Fibers</td>
<td>6</td>
</tr>
<tr>
<td>– Primers</td>
<td>6</td>
</tr>
<tr>
<td>– Repair Mortars</td>
<td>6</td>
</tr>
<tr>
<td>– Composite Strengthening</td>
<td>7</td>
</tr>
<tr>
<td>– Surface Protection</td>
<td>7</td>
</tr>
<tr>
<td>– Construction Injection Products</td>
<td>7</td>
</tr>
<tr>
<td>4. Performance Grouts</td>
<td>8</td>
</tr>
<tr>
<td>5. Performance Flooring Systems</td>
<td>9</td>
</tr>
<tr>
<td>– Cementitious Flooring</td>
<td>9</td>
</tr>
<tr>
<td>– Primers</td>
<td>9</td>
</tr>
<tr>
<td>– Sealers</td>
<td>9</td>
</tr>
<tr>
<td>– Industrial Flooring</td>
<td>9</td>
</tr>
<tr>
<td>6. Waterproofing Systems</td>
<td>10</td>
</tr>
<tr>
<td>– Bituminous Waterproofing</td>
<td>10</td>
</tr>
<tr>
<td>– Cementitious Waterproofing</td>
<td>10</td>
</tr>
<tr>
<td>– Traffic Deck Systems</td>
<td>10</td>
</tr>
<tr>
<td>– Synthetic Waterproofing</td>
<td>10</td>
</tr>
<tr>
<td>– Watertight Jointing Systems</td>
<td>11</td>
</tr>
<tr>
<td>7. Sealants</td>
<td>12</td>
</tr>
<tr>
<td>– Sealant Primers</td>
<td>12</td>
</tr>
<tr>
<td>– Joint Sealants</td>
<td>12</td>
</tr>
<tr>
<td>– Expansion Control Systems</td>
<td>12</td>
</tr>
</tbody>
</table>
## Admixture Systems

### Super Plasticizers
- MasterGlenium 118: PCE based superplasticizer for the production of high quality ready-mix concrete.
- MasterGlenium 119: PCE based superplasticizer for high quality ready-mix concrete which allows for more robust performance in problematic mixes.
- MasterGlenium 27CH: High range water reducing admixture for ready-mix and self-compacting concrete.
- MasterGlenium 3284: Polycarboxylate Ether (PCE) based superplasticizer for the production of high quality ready-mix concrete - Mid Range Superplasticizer.
- MasterGlenium 3405: High Range Water reducing multi dosage / plasticizer to produce low slump-loss flowable concrete.
- MasterGlenium SKY 617: Adjuvant superplasticizer, based on PCE, suitable for ready-mix concrete, with high retention of workability and durability.
- MasterGlenium SKY 923: Workability-Retaining Admixture.
- MasterPolyheed 3840: Workability-Retaining Admixture - Mid Range.
- MasterRheobuild 1100: High range, water reducing superplasticizing admixture for the production of rheoplastic concrete.
- MasterRheobuild 561M: High range, water reducing superplasticizer for rheoplastic concretes.

### Plasticizers
- MasterCast 746: New generation Plasticizer for Manufactured Concrete Products, specially engineered for block and paver mixes.
- MasterPozzolith 390N: Water reducing plasticizer to produce low slump loss in flowable concretes.

### Retarders

### Accelerators
- MasterPozzolith 555: Non-chloride accelerating admixture.
- MasterPozzolith 575: Chloride accelerating admixture.

### Air Entrainers
- MasterAir 100: Air-entraining admixture for concrete.

[Back to contents]
Admixture Systems

**Specialties / Others**
- MasterCast 222: Powder Mortar Plasticizer
- MasterCast 355: Powder Admixture for improved Water Resistance In Mortar & Concrete
- MasterLife CI 222: Organic corrosion inhibiting admixture
- MasterLife WP 730: Integral hydrophobic pore-blocking ingredient for watertight concrete
- MasterMatrix 110: High-performance viscosity modifying agent (VMA) for fluid concretes
- MasterSeal 501 WA: Waterproofing admixture for Concrete

**Bonding Agents**
- MasterCast 111: Emulsion admixture and bonding agent for concrete and mortars
- MasterCast 141: Multi-purpose admixture for cementitious systems, waterproofs and improves mortars, bonding agent

**Curing Compounds**
- MasterKure 101: Acrylic emulsion curing compound
- MasterKure 106: Water based wax emulsion concrete curing compound / bond breaker
- MasterKure 107: Water based wax emulsion concrete curing compound, white pigmented for solar reflectance
- MasterKure 111 WB: Evaporation retardant and finishing aid
- MasterKure 181: Pliolite resin based multi-role curing, sealing and protective membrane for concrete
- MasterKure 181 White: Pliolite resin based liquid membrane forming curing compound for concrete (white pigmented)

**Form Release Agents**
- MasterFinish 302: High performance chemical and physical mould release agent

**Synthetic Fibers**
- MasterFiber 12mm: Monofilament polypropylene fibres for cementitious systems
- MasterFiber 150: Structural polypropylene fibre for reinforcing sprayed concrete
Underground Construction

**Sprayed Concrete Products**
- MasterRoc HCA 10: Cement hydration control system for wet and dry sprayed concrete, grouting and cement injection
- MasterRoc MS 810: Densified silica fume for cast and sprayed concrete
- MasterRoc SA 160: Alkali-free, liquid high performance set accelerator for sprayed concrete

**UGC Injection Products**
- MasterRoc FLC 100: A powdered admixture for the production of non-shrink, high strength grouts for post tensioned cables and fixing anchors or bolts in concrete or rock
- MasterRoc MP 351: A liquid pre-polymer that reacts with water to produce a foam
- MasterRoc MP 368: Highly reactive, thixotropic and fire resistant two component polyurea silicate injection resin for ground consolidation in highly fractured strata
## Concrete Repair and Protection

### Bonding Promoters
- **MasterCast 111**: Emulsion admixture and bonding agent for concrete and mortars
- **MasterCast 141**: Multi-purpose admixture for cementitious systems, waterproofs and improves mortars, bonding agent

### Bonding Systems
- **MasterBrace ADH 1414**: Wet-to-dry & vertical dowel epoxy bonding agent for concrete repairs, bonding concrete to concrete, steel and granolithic toppings
- **MasterBrace ADH 2200**: High strength, non-flow, epoxy bedding and repair mortar

### Curing Compounds
- **MasterKure 101**: Acrylic emulsion curing compound
- **MasterKure 106**: Water based wax emulsion concrete curing compound / bond breaker
- **MasterKure 107**: Water based wax emulsion concrete curing compound, white pigmented for solar reflectance
- **MasterKure 111 WB**: Evaporation retardant and finishing aid
- **MasterKure 181**: Pliolite resin based multi-role curing, sealing and protective membrane for concrete
- **MasterKure 181 White**: Pliolite resin based liquid membrane forming curing compound for concrete (white pigmented)

### Form Release Agents
- **MasterFinish 302**: High performance chemical and physical mould release agent

### Synthetic Fibers
- **MasterFiber 12mm**: Monofilament polypropylene fibres for cementitious systems

### Primers
- **MasterEmaco 8100 AP**: Single component epoxy based zinc rich primer for steel

### Repair Mortars
- **MasterEmaco N 303**: Single component polymer modified fairing coat / cosmetic mortar for concrete surfaces
- **MasterEmaco N 304**: Cementitious repair mortar for non structural cosmetic repairs
- **MasterEmaco N 304 Stadium Grey**: Cementitious repair mortar for non structural cosmetic repairs
- **MasterEmaco S 5410 CI**: High-strength, rapid setting, shrinkage compensated, fibre reinforced, structural repair mortar with active corrosion inhibition
- **MasterEmaco S 730**: Thixotropic fibre reinforced, polymer repair mortar
- **MasterEmaco S 750**: Shrinkage controlled micro-concrete for all types of structural repairs
Concrete Repair and Protection

**Composite Strengthening**
- MasterBrace FIB
- MasterBrace LAM

**Surface Protection**
- MasterProtect 180 Light Grey: A non-toxic solvent free high build, protective epoxy resin coating
- MasterProtect 300 Grey: Pigmented, elastomeric and protective waterproof and anti-carbonation coating for concrete and concrete structures
- MasterProtect 380: Water based silane siloxane primer and penetrative water repellent protective treatment for concrete and masonry
- MasterProtect 8000 CI: Advanced organo functional silane based corrosion inhibitor
- MasterProtect H 1100: Free-flowing, colourless solvent free liquid, based on a monomeric alkylalkoxysilane

**Construction Injection Products**
- MasterInject 1315: Low viscosity crack injection Epoxy resin
- MasterRoc MP 351: A liquid pre-polymer polyurethane that reacts with water to produce a foam
- Quick Set Packers: Polyamide (PA) resin injection packer
## Performance Grouts

<table>
<thead>
<tr>
<th>Grout Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MasterFlow 190</td>
<td>Shrinkage compensated fluid grout - Superfine Grout</td>
</tr>
<tr>
<td>MasterFlow 400</td>
<td>High strength, free flowing epoxy grout</td>
</tr>
<tr>
<td>MasterFlow 4800</td>
<td>Ultra-high strength precision grout with metallic aggregate for high impact and dynamic load bearing</td>
</tr>
<tr>
<td>MasterFlow 519</td>
<td>Non-shrink cementitious construction grout</td>
</tr>
<tr>
<td>MasterFlow 525</td>
<td>High flowability precision non-shrink cementitious grout, non-metallic</td>
</tr>
</tbody>
</table>
## Performance Flooring Systems

### Cementitious Flooring
- **MasterTop 100 Burnish**: Non-metallic dry-shake floor hardener
- **MasterTop 190 Standard Light Grey**: Pigmented dry shake surface hardener for concrete floors
- **MasterTop 195 Burnish**: Thin-set concrete floor re-surfacing system
- **MasterTop 528**: Commercial grade self leveling cementitious floor underlayment
- **MasterTop 538**: Heavy duty industrial grade self-smoothing cementitious floor overlay

### Primers
- **MasterTop 1200**: Two-component solvent free epoxy resin
- **Ucrete Primer FS**: Heavy duty polyurethane fast slurry primer for Ucrete flooring systems
- **Ucrete Primer RG**: Heavy duty polyurethane primer for Ucrete RG

### Sealers
- **MasterTop 20**: Concrete hardening and dust proofing liquid
- **MasterTop TC 941**: Topcoat with exceptional cleanability and scratch resistance for hard wearing solutions
- **Ucrete DP Topcoat**: Heavy duty polyurethane encapsulation resin

### Industrial Flooring
- **MasterTop 1205**: A pigmented, solvent-free, highbuild epoxy floor coating system
- **MasterTop 1210**: Multi component solvent free epoxy floor coating system
- **MasterTop 1230**: Self smoothing solvent free, epoxy overlay system for concrete floors
- **Ucrete HF60RT**: Heavy duty, flow applied, polyurethane floor finish
- **Ucrete IF**: Iron aggregate filled heavy duty polyurethane hybrid floor system
- **Ucrete MF**: Heavy duty polyurethane floor finish
- **Ucrete MF40AS**: Antistatic heavy duty polyurethane floor finish
- **Ucrete RG**: Heavy Duty Polyurethane Render
- **Ucrete UD200**: Heavy duty polyurethane screed
Waterproofing Systems

**Bituminous Waterproofing**
- MasterSeal 620: A bitumen / rubber latex emulsion. Surface applied, flexible, damp and vapour-proof liquid membrane
- MasterSeal 725 SA: SBS self-adhesive bitumen waterproofing membrane for sub-structures and deck application
- MasterSeal 734 AT: APP plastomeric bitumen torch-applied membrane
- MasterSeal P 700: Fast drying solvent base bitumen primer for bitumen sheet membrane
- MasterSeal TC 700: Aluminium UV reflective coating for bituminous membrane

**Cementitious Waterproofing**
- MasterSeal 501: Surface applied capillary waterproofing system for concrete and block work
- MasterSeal 550: Acrylic reinforced cementitious, flexible waterproof coating
- MasterSeal 590: Fast setting mortar to plug active water leaks in concrete and masonry
- MasterSeal 599: High range elastomeric, cement-based waterproof coating for concrete and masonry
- MasterSeal 958 / FX Mesh: High quality fiberglass reinforcing mesh for waterproofing coatings

**Traffic Deck Systems**
- MasterTop 1200: Two-component solvent free epoxy resin
- MasterSeal M 866: A tough elastic two component polyurethane membrane
- MasterSeal TC 242: Solvent free, two component aromatic polyurethane coating for traffic decking applications
- MasterSeal TC 256: Two-component elastomeric pigmented polyurethane UV resistant traffic coating
- MasterTop SR: Silica aggregates for use in conjunction with MasterTop, MasterSeal and MasterProtect systems
- MasterSeal M 689: A high elastic, ultra-fast curing, spray applied 100% polyurea membrane for use in waterproofing & other applications
- MasterSeal P 691: Single Component Polyurethane Based Adhesion Primer
- MasterSeal P 617: A solvent free (total solid), low viscosity, two component epoxy resin based primer

**Synthetic Waterproofing**

**TPO Range (Thermo Plastic Polyolefin)**
- MasterSeal 750 TPE: Synthetic membrane of TPO for loose lay applications
- MasterSeal 751 TPEF: Synthetic membrane of TPO with fleece-back
- MasterSeal 752 TDE: Synthetic membrane of TPO for detail work
- MasterSeal 753 THE: Synthetic membrane of TPO for hydraulics

**PVC Range (Poly Vinyl Chloride)**
- MasterSeal 700 BG: Synthetic membrane of plasticised PVC for loose lay applications

Back to contents
Waterproofing Systems

**Watertight Jointing Systems**
- MasterSeal 901: Vinyl Ester Methacrylate resin for crack injection via injection hoses and packers
- MasterSeal 910: Water swelling waterbar for joints
- MasterSeal 911: Adhesive for MasterSeal 910
- MasterSeal 912: Swelling gasket in paste form
- MasterSeal 930: Sealing bandage for irregular and unconventional joints
- MasterSeal 940: Centrally and externally placed PVC Waterstops
- Pectape WS: Self-adhesive waterproofing tape for corner and perimeter joints
## Sealants

### Sealant Primers
- **MasterSeal P 101**: Universal modified silane primer for joint sealants
- **MasterSeal P 460**: Primer for MasterSeal CR 460

### Joint Sealants
- **MasterSeal 320**: Flexible twin pack polyurethane joint filler
- **MasterSeal CR 460**: Two component, self leveling polyurethane joint sealant
- **MasterSeal GG 470**: Two component, high performance, elastomeric joint sealant (Gun Grade)
- **MasterSeal NP 472 Grey**: One part polyurethane based elastomeric joint sealant
- **MasterSeal NP 474 Grey**: Versatile single component elastomeric polyurethane sealant and adhesive (high shore hardness)
- **MasterSeal SL 189**: Ultra-low modulus silicone sealant for concrete to concrete / concrete to asphalt and asphalt to asphalt pavement joints

### Expansion Control Systems
- **Wabocrete II AE**: Solvent-free polyurethane mortar for expansion joints
- **Masterflex J Seal**: High performance neoprene expansion joint system
- **Wabocrete ME-225**: Membrane sealing expansion joint system
Contact

Visit us at www.master-builders-solutions.basf.co.za
or call Tel: +27 11 203 2405

Midrand
852 Sixteenth Road, Midrand
PO Box 2803, Halfway House, 1685
Tel:  +27 11 203 2405
Fax:  +27 11 203 2679

Westonaria
11 Pullinger Street, Westonaria
PO Box 420, Westonaria, 1780
Tel:  +27 11 754 1343
Fax:  +27 11 754 1105

Durban
Unit C3, 1 Sundew Crescent
Ushukela Industrial Park, Cornubia
Tel:  +27 31 572 7214

Cape Town
Tel:  +27 71 681 3521