Concrete Repair

As distributors for the largest manufacturers in the concrete repair market SIG Construction Accessories can offer the solution to all your repair problems. From large scale renovations and structures, to restoring kerbs and joint arises, SIG CA will have a product or system to do the job.

Our range includes:
• Primers & steel protection.
• Cementitious repair mortars.
• Resin repair mortars.
• Crack injection and stitching materials.
• Fast setting pavement repairs.
• Decorative coatings.
• Anti-carbonation coatings.
• Concrete resurfacer.

Contents

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FLEXCRETE

STEEL REINFORCEMENT PROTECTOR 841
Polymer cement coating which is supplied with a convenient mixing kit for economical protection of steel reinforcement. BBA certified.

MONOLITE
Low density, high yield, ultra-high build, shrinkage compensated, polymer modified mortar used without a primer to repair and reprofile concrete, brick or stone substrates. Single component cementitious formulation which is mixed with water to give rapid hardening and enhanced polymeric properties with. Easy to apply in high build single applications up to 100mm and particularly suitable for vertical and overhead situations. Finishes to a high quality polymer rich surface. Certified to EN 1504-3 Class R2.

MONOMIX
Multi-purpose, structural grade, shrinkage compensated, polymer modified repair mortar for reinstatement of vertical, horizontal and overhead surfaces. Incorporating the latest technology, the low density, high strength, thixotropic nature enables high build application without a primer in single thicknesses up to 80mm (including overhead). Totally resistant to water under a 100 metre hydrostatic head, it is suitable for use as a waterproof render in tanks and basements and has DWI Approval for use in contact with drinking water. Compliant with Highways Agency Standard BD27/86, BBA certified and CE Marked in compliance with EN 1504-3 Class R3.

MONOMIX HD
This high performance mortar builds on the core technology to provide an extremely durable, 55N/mm² compressive strength repair compound which is suited both for heavily trafficked areas and for high build applications, matching the 80mm single application thickness achieved by standard Monomix even when used overhead. Like all Flexcrete mortars, Monomix HD does not require a primer to promote adhesion. Compliant with Highways Agency Standard BD27/86, and certified to EN 1504-3 Class R4.

FASTFILL
Single component, polymer modified, fibre reinforced, Portland cement based compound, which exhibits unique hydraulic properties to produce a rapid curing mortar with an ultimate compressive strength of circa 66N/mm². Ideally suited for both in-situ and precast concrete, including areas which are subjected to heavy wear. Applications include slabs in industrial floors, runways, roadways
and footpaths as well areas subject to early immersion. Suitable for thickness between 5-300mm, Fastfill can be bulked out with aggregate to produce a cost effective mortar for filling of large voids or for the bedding of street furniture, kerbs, drainage channels, pipes etc. DWI Approved for use in contact with drinking water, compliant with Highways Agency Standard BD27/86, BBA certified and CE Marked in compliance with EN 1504-3 Class R4.

**FASTFILL WP**

**RAPID SETTING WATER PLUGGING MORTAR**

**PRODUCT DESCRIPTION**

FASTFILL WP is a single component, polymer modified, fibre reinforced, Portland cement-based plugging and sealing compound. When mixed with water it exhibits unique hydraulic properties to produce a rapid setting mortar which can arrest water seepage and infiltration through joints, cracks or porous areas in concrete and masonry structures. It is ideally suited for sealing in and around pipework and for forming fillets in tanking situations.

**USES**

Rapid setting, polymer modified cementitious mortar for arresting water seepage and infiltration under pressure through cracks, joints and voids in concrete and masonry. Can also be used for rapid sealing and jointing in and around pipework, or in water retaining structures.

**ADVANTAGES**

- Pre-packaged material requiring mixing with clean water.
- Low shrinkage and high bond strength ensure monolithic performance and a watertight seal.
- Sets in 2 minutes at 20ºC, yielding a durable, high strength mortar.
- Physical properties of cured materials similar to base concrete.
- Polymer modified to ensure enhanced adhesion in jointing situations and prevent wash out.
- Non toxic when cured.
- No more hazardous to handle than ordinary Portland cement.
MONOMIX WS

PRODUCT DESCRIPTION
MONOMIX WS is a single component cementitious mortar which incorporates the most advanced cement chemistry, microsilica, fibre and styrene acrylic copolymer technology. This results in a rapid hardening, low density, high strength mortar with enhanced polymer properties. The thixotropic nature of the product enables easy high build spray application for the structural repair of voids and the rendering and re-profiling of both vertical, horizontal and overhead surfaces. The product is supplied as a single component system requiring only the addition of clean water.

USES
MONOMIX WS is a low density, high strength, shrinkage compensated mortar, which can be applied by wet process spraying techniques for the structural repair, rendering and profiling of vertical, horizontal and overhead surfaces.

ADVANTAGES
• Incorporates the latest proven cement chemistry, microsilica, fibre and styrene acrylic copolymer technology.
• Pre-packaged material requiring mixing with clean water on-site to give a mortar which can be applied by wet process techniques with a maximum application thickness in excess of 80mm in vertical, horizontal and overhead situations.
• High bond strength exceeds tensile strength of concrete, thus ensuring monolithic performance of the repair.
• Dense matrix offers low permeability to water, even at 10 bar pressure, and very high diffusion resistance to acid gases and chloride ions.
• Improved tensile and impact strength. Excellent low sag properties.
• Non-toxic when cured and is listed as authorised under Regulation 31 for use in the supply of drinking water.
• Economic mortar generally requiring no substrate or inter-layer priming. Part bags can be mixed.
• Easily overcoated with specialist membranes to provide further protection and aesthetic quality.

COMPLIANCE
CE marked in accordance with BS EN 1504 Part 3. Fully complies with the Highways Agency Standard BD 27/86 for the repair of Highway Structures. Authorised under DWI Regulation 31 for use in the supply of drinking water.
MONORUB
CLASS R1 FINE GRADE FAIRING COAT

Product Description

MONORUB is a single component, polymer modified cementitious mortar for the filling of blow-holes and small surface defects in precast and in-situ concrete, whilst providing an aesthetic yet durable finish. The incorporation of a polymer enhances adhesion and imparts a high degree of water repellency to the surface of concrete, making it denser and more impermeable. Once cured, if required it can be overcoated with specialist membranes in the Flexcrete range to provide further protection and aesthetic quality.

Uses

Fine grade polymer modified mortar for filling blow holes and minor surface defects to produce a fine formed finish. Available in Grey and White versions to enable colour matching with the parent concrete.

Advantages

- Pre-packaged material simply requires mixing with clean water on-site.
- Incorporates innovative styrene acrylic copolymer technology.
- Uses ordinary Portland cement, which is fully compatible with precast and in-situ concrete.
- Economic mortar generally requiring no substrate or inter-layer priming. Part bags can be mixed.

MONOLEVEL

A range of single component, polymer modified mortars for rendering and reprofiling of in-situ and precast concrete and brickwork to produce a high quality, decorative engineering finish. Simply mixed with water on-site, application is by spray, trowel or bag rubbing techniques. Uses include fairing coats to fill minor voids and defects on new and existing structures (Monolevel FC EN 1504-3 R2), waterproofing of basements and water tanks including drinking water structures (Monolevel 844SP EN 1504-3 R4) and waterproof external rendering of brick and blockwork (Monolevel RM).

MONOLEVEL FC

PRODUCT DESCRIPTION

MONOLEVEL FC is a single component, thixotropic, polymer modified, cementitious mortar with high adhesive properties, allowing it to be used as a thin screed, as well as a filler for filling minor voids and defects to provide a fair faced finish. It incorporates the most advanced microsilica, fibre and polymer technology, curing to provide enhanced freeze/thaw resistance and protection.
from the ingress of water, acid gases and chlorides. The product is supplied as a single component system requiring only the addition of clean water.

USES
MONOLEVEL FC is an engineering quality fairing coat for filling minor blow holes and defects, and for repairing surface imperfections. Thin screed applications can be used to level both vertical and horizontal concrete surfaces to provide a fair faced finish.

ADVANTAGES
- Incorporates the latest proven cement chemistry, microsilica, fibre and styrene acrylic copolymer technology.
- Pre-packaged material requiring mixing with clean water on-site to give an adhesive mortar which can be rapidly applied in vertical and horizontal situations by brush, bag-rubbing, trowel or spray techniques.
- High bond strength exceeds tensile strength of concrete, thus ensuring monolithic performance of the repair.
- Dense matrix provides excellent protection from ingress of acid gases, moisture and chlorides.
- Non-toxic when cured.
- Economic mortar requiring no substrate or inter-layer priming. Part bags can be mixed. Suitable for feather edging.
- Suitable as an exposed external finish without further protection or coating.
- Easily overcoated with specialist membranes to provide further protection and aesthetic quality.

COMPLIANCE

MONOPOUR
Ultra high flow, waterproof micro-concrete or grout, Monopour is shrinkage compensated and polymer modified to give rapid early strength development. Compliant with Highways Agency Standard BD27/86.

CEMENTITIOUS COATING 851
PRODUCT DESCRIPTION
CEMENTITIOUS COATING 851 is a two component, thixotropic, cementitious modified polymer coating with high adhesion to both concrete and steel. CEMENTITIOUS COATING 851 forms a hard, highly alkaline coating with a degree of elasticity which not only protects the concrete, or other substrates, from the effects of aggressive acid gases, moisture and chlorides, but also has greatly
enhanced chemical resistance. It is particularly suited for the protection of concrete in sulphate contaminated ground conditions. Can be reinforced with CEMPROTEC 2000-S tape to accommodate movement around details and over cracks and joints. where further movement is expected.

USES
CEMENTITIOUS COATING 851 is designed for internal and external structural waterproofing of concrete and other mineral substrates. Resists positive and negative pressure under 100m head in water retaining and below ground structures as well as roofs and decks. Provides chloride protection on highway and coastal structures and enhances the durability of reinforced concrete by reinstating effective cover to achieve the specified design life.

ADVANTAGES
- Incorporates the latest proven cement chemistry, microsilica, fibre and styrene acrylic copolymer technology.
- Brush, trowel or spray applied normally in two coats. Floors and decks are a one coat application.
- Pre-packaged material only require mixing on site.
- Excellent adhesion to sound prepared concrete substrates and steel.
- Dense matrix offers low permeability to water, even at 10 bar positive and negative pressure, and very high diffusion resistance to carbon dioxide gas and chloride ions.
- Provides the equivalent to 100mm of good quality concrete cover.
- Non-toxic when cured and is listed as authorised under Regulation 31 for use in the supply of drinking water.
- Easily overcoated with Flexcrete’s specialist membranes to provide further protection and aesthetic quality.

COMPLIANCE
CE marked in accordance with BS EN 1504 Part 2. Approved by the BBA, Certificate No. 05/4276. Listed under DWI Regulation 31 for drinking water applications. Compliant with LU Standard 1-085 ‘Fire Safety Performance of Materials’.

BONDING BRIDGE 842
A polymer cement impregnant for sealing and enhancing bond on high porosity substrates.

STEEL REINFORCEMENT PROTECTOR 841
CLASS R7 REINFORCEMENT CORROSION PROTECTION
PRODUCT DESCRIPTION
STEEL REINFORCEMENT PROTECTOR 841 consists of two components, a cementitious powder and a polymer dispersion which react chemically together to passivate, with the aid of corrosion inhibitors, and protect steel reinforcement.
STEEL REINFORCEMENT PROTECTOR 841 has excellent adhesion to steel and concrete allowing high bond strengths with FLEXCRETE REPAIR MORTARS. STEEL REINFORCEMENT PROTECTOR 841 forms a highly alkaline coating with a degree of elasticity which not only protects the steel from aggressive acid gases, moisture and chlorides, but passivates the steel surface chemically to prevent further rust formation.

USES
Corrosion preventative, flexible coating to protect steel reinforcement prior to the application of the relevant FLEXCRETE REPAIR MORTARS.

ADVANTAGES
- Brush applied in two coats with minimal inter-coat waiting time.
- Economic coating gauged as required to the correct consistency using mixing kit provided.
- High alkalinity and corrosion inhibitors rapidly reinstate passivating layer around reinforcement to give long term corrosion protection.
- Tolerant to lower levels of steel preparation.
- Dense matrix protects the steel from aggressive acid gases, moisture and chlorides.
- High insulation properties prevent further electrochemical corrosion.
- Produces a hard coating with a degree of elasticity.
- Excellent adhesion to steel ensures adequate pull-out resistance is achieved.
- Non toxic when cured.

COMPLIANCE
CE marked in accordance with BS EN 1504 Part 7. Authorised under Regulation 31 for use in the supply of drinking water. Approved by the BBA, Certificate No. 05/4276.

TIEFILL
CLASS R4 WATERPROOF TIEHOLE FILLER

PRODUCT DESCRIPTION
TIEFILL is a single component, polymer modified, fibre reinforced, Portland cement based repair compound, which exhibits unique hydraulic properties to produce a rapid curing mortar with enhanced polymer properties.

The product is supplied as a single component system requiring only the addition of clean water to give a rapid setting, yet durable high strength mortar. It is ideally suited for the filling of voids, particularly in new construction, which need to be rapidly put into service - such as tie-holes, grout holes and voids around fixings.

USES
For the filling of tie-holes formed by formwork bolts in new construction,
particularly where a rapid setting, durable, waterproof mortar is required. Can also be used for sealing grout holes and voids around fixings in pre-cast elements.

ADVANTAGES

- Incorporates the latest proven cement chemistry, polymer and fibre technology.
- Pre-packaged materials in convenient pack sizes only requiring mixing with clean water on site.
- High bond strength exceeds tensile strength of concrete thus ensuring monolithic performance.
- Sets in 30 minutes at 20°C, yielding a durable, high strength mortar.
- Waterproof seal which withstands 10 bar water pressure after only 72 hours curing.
- Polymer modification gives enhanced adhesion and low permeability, providing excellent protection from acid gases, moisture ingress and chlorides.
- Improved tensile and impact strength. Excellent low sag properties.
- Non-toxic when cured and is WRAS Approved for use in contact with potable water.
- Economic mortar generally requiring no substrate or inter-layer priming. Part bags can be mixed.

COMPLIANCE


CEMPROTEC E942

EPOXY AND POLYMER MODIFIED CEMENTITIOUS COATING

PRODUCT DESCRIPTION

CEMPROTEC E942 is a two component, water based, epoxy and polymer modified cementitious coating for the protection of concrete and ferrous metals. Advanced cement chemistry, microsilica, fibre, epoxy and styrene acrylic copolymer technology provide multi-functional protection with enhanced chemical resistance. Exhibits a high degree of thixotropy for easy application by brush or spray to give a smooth surface finish without sagging. Hydrates to a dense, highly alkaline coating with polymeric and resinous properties, offering low permeability to water and very high diffusion resistance to chloride ions and oxygen, to ensure long term protection. It is specially formulated to chemically accelerate the passivation of ferrous metals and give maximum adhesion to steel and concrete. Proven to be suitable for use in conjunction with cathodic
protection systems at up to 95°C. Can be reinforced with CEMPROTEC 2000-S tape to accommodate movement around details, and over cracks and joints.

USES
CEMPROTEC E942 incorporates the benefits of copolymer and epoxy resin technologies into a water-based cementitious system to give a hard, durable coating with excellent resistance to water, chloride ions, oxygen and aggressive chemicals. Can be used as a stand-alone anti-corrosion coating for ferrous metals as well as waterproofing and protection of concrete where enhanced chemical and abrasion resistance is needed.

ADVANTAGES
• Pre-packaged in convenient and easy to handle sizes, only requiring mixing on site.
• Unique blend of surfactants enables easy brush or spray application. Gel structure breaks down under shear to produce a smooth finish, which rapidly recovers to prevent sagging.
• Excellent abrasion and impact resistance. Resistant to a range of chemicals including hydrogen sulphide.
• Excellent adhesion to steel and cementitious substrates. Tolerant to lower levels of steel preparation.
• Hydrates to provide an alkaline environment which chemically reacts with the substrate to accelerate the passivation of steel and enhance the bond to concrete.
• Water-based product, cures without the release of hazardous solvents. Equipment easily cleaned with water.
• Dense matrix offers low permeability to water, even at 10 bar positive and negative pressure, and very high diffusion resistance to carbon dioxide gas and chloride ions.

COMPLIANCE
CE marked in accordance with BS EN 1504 Part 2. Compliant with LU Standard 1-085 'Fire Safety Performance of Materials'.

CEMPROTEC ELASTIC
ELASTOMERIC CEMENTITIOUS MODIFIED FLEXIBLE COATING

PRODUCT DESCRIPTION
CEMPROTEC ELASTIC is a two component, cementitious modified, polymer-rich coating with excellent adhesion to prepared concrete and masonry substrates. When mixed it exhibits a good degree of thixotropy to enable ease of application by brush or spray techniques to give an even finish with no sagging, even in vertical situations. It hydrates to form a durable, highly alkaline, permanently elastomeric coating which not only protects the concrete or other substrates
from water penetration and carbon dioxide diffusion, but also accommodates movement in cracks. It is non-hazardous and ideally suited for application in confined spaces.

USES
CEMPROTEC ELASTIC is an elastomeric, cementitious modified, polymer-rich coating which maintains its flexibility under permanent immersion and when exposed externally. It is ideally suited for waterproofing and protecting concrete and masonry structures which exhibit cracking and where further movement is expected. Typical applications include the sealing of water tanks, waterproofing of exposed, buried or green roofs, and use as a crack isolation membrane on concrete floors or screeds. It can be reinforced with CEMPROTEC Geo80 over generally cracked substrates or CEMPROTEC 2000-S to treat formed joints and dominant cracks.

ADVANTAGES
• Pre-packaged materials only requiring mixing on site.
• Brush, trowel or spray applied, normally in two coats. Flooring applications are a one coat operation.
• Tough, flexible coating which maintains its elastomeric properties even under immersed conditions to accommodate movement in cracks.
• Good abrasion and very high resistance to freeze/thaw cycles and de-icing salts.
• Excellent adhesion to sound prepared concrete and masonry substrates as well as steel.
• Dense matrix offers low permeability to water, even at 10 bar pressure, and very high diffusion resistance to carbon dioxide gas.
• A 2mm coat provides the equivalent to 135mm of good quality concrete cover.
• Can be applied to damp substrates in temperatures down to 5°C.
• Water-based product, free from hazardous solvents, ideal for use in confined spaces. Non-toxic when cured.
• Barrier to root penetration making it suitable for green roof applications.
UNIMATCH

CLASS R1 COLOUR MATCHED RAPID COSMETIC REPAIR MORTAR.

PRODUCT DESCRIPTION
UNIMATCH is a single component, cosmetic grade repair mortar, based on the latest polymer cement technology, which is suitable for the repair of damaged, honeycombed or spalled concrete. It is highly waterproof and exhibits good build characteristics. It can be used in vertical, overhead and other difficult areas of repair without the use of primers, special lightweight aggregates or support. Colour and texture match is easily achieved by mixing grades of Grey and White at different ratios using trial mixes. If necessary, coloured aggregates can also be blended in, as well as concrete pigments.

USES
For rapid cosmetic repairs to in-situ and precast concrete. It is especially suitable for repairs which need to be matched to the parent concrete to provide a high aesthetic finish.

ADVANTAGES
- Pre-packaged material requiring mixing with clean water on-site. No special primers are necessary.
- Supplied in Grey and White grades which can be blended easily for perfect colour match. Coloured aggregates can also be blended in, as well as concrete pigments if necessary.
- Physical properties of cured materials similar to base concrete.
- Low shrinkage and high bond strength ensure monolithic performance of the repair.
- Polymer modified to enhance adhesion with low permeability giving excellent protection from acid gases, moisture ingress and chlorides.
- Rapid strength development, achieving over 9 MPa in 2 hours.
- Very low alkali content ensures low hazard in use and negligible risk of alkali silica reactions. Chloride-free.
<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Yield (litres)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel Reinforcement</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protector 841</td>
<td>5</td>
<td>2.8</td>
<td>45 linear metres of 10mm bar</td>
</tr>
<tr>
<td>Monolite</td>
<td>20</td>
<td>18.5</td>
<td>1.85m² @ 10mm thickness</td>
</tr>
<tr>
<td>Monomix</td>
<td>25</td>
<td>16.5</td>
<td>1.65m² @ 10mm thickness</td>
</tr>
<tr>
<td>Monomix HD</td>
<td>25</td>
<td>13.1</td>
<td>1.31m² @ 10mm thickness</td>
</tr>
<tr>
<td>Fastfill</td>
<td>25</td>
<td>13.3</td>
<td>1.33m² @ 10mm thickness</td>
</tr>
<tr>
<td>Monolevel FC</td>
<td>25</td>
<td>15</td>
<td>5m² @ 3mm thickness</td>
</tr>
<tr>
<td>Monolevel 844SP</td>
<td>25</td>
<td>15</td>
<td>5m² @ 3mm thickness</td>
</tr>
<tr>
<td>Monolevel RM</td>
<td>25</td>
<td>14</td>
<td>1.4m² @ 10mm thickness</td>
</tr>
<tr>
<td>Monopour PC6</td>
<td>25</td>
<td>12.2</td>
<td>1.22m² @ 10mm thickness</td>
</tr>
<tr>
<td>Monopour PG</td>
<td>25</td>
<td>12.5</td>
<td>1.25m² @ 10mm thickness</td>
</tr>
<tr>
<td>Cementitious Coating 851</td>
<td>30</td>
<td>16.67</td>
<td>8.33m²/30kg @ 2mm thickness</td>
</tr>
<tr>
<td>Bonding Bridge 842</td>
<td>4</td>
<td>2.1</td>
<td>16m² per pack</td>
</tr>
</tbody>
</table>

All products (except 851) are supplied as a single component system, ready for on-site mixing and use, requiring only the addition of clean water. Packs can be split for economic use (not 851).

WEWEBER

WEWEBER.CEM
The weber.cem concrete repair system is a pre-bagged, multi component system based on polymer-modified Portland Cement mortars and coatings based on acrylic resins.

WEWEBER.CEM KEYCOAT - BOND COAT
A single-component, polymer-modified, corrosion-inhibiting bonding primer for substrate concrete and steel reinforcement.

WEWEBER.CEM MORTAR
weber.cem mortar is a general purpose mortar for the repair of concrete, to both horizontal and vertical surfaces.

WEWEBER.CEM LIGHTWEIGHT
A polymer modified cementitious mortar mix, with specially selected lightweight fillers. It is preblended, contains a polymer powder and simply requires the addition of clean water to produce a mortar suitable for both soffit and vertical repairs in situations where high build replacement with conventional concrete is impractical. High-build up to 75 mm in soffit patch repairs, without formwork.
WEBER.CEM HB30 AND HB40
Single-component, polymer modified high build mortars for replacing defective concrete with 30N/mm² and 40N/mm² compressive strength, thickness range up to 100mm vertically and 75mm on soffits.

WEBER.CEM FAIRING COAT
A single-component, polymer-modified levelling mortar used to prevent ghosting of concrete repairs through decorative finishes.

WEBER.CEM SPRAY DS
A ready-to-use, polymer-modified, cement-based concrete mix. It contains inert limestone aggregates and dust suppressants. The formulation has been designed specially for dry process spray application to give high early strength, reduced rebound and maximise application thickness.

WEBER.CEM PYRACRETE
Is a prepacked product based on hydraulic cements with specially graded non-reactive aggregates. The product is polymer modified which when mixed with clean water produces a fast setting repair concrete, suitable for patch or full depth repairs up to 2m².

WEBER.CEM PYRATOP
A rapid strength gain repair concrete for thin bond pavement repairs, which is a prepacked hydraulic cement-based product with specially graded aggregates. It exhibits high early strength, is dimensionally stable and has excellent abrasion resistance.

FIVE STAR REPAIR CONCRETE
A preblended cementitious repair concrete which fully complies with the Highways Agency Specification for Highway Works and Department of Transport specification BD 27/86 for a high strength flowing concrete.

WEBER.TEC EP BONDING AID
A high-build epoxy resin for priming epoxy repair mortars for bonding to concrete and masonry structures. Exceptional bond to vertical and soffit applications for priming lightweight repair mortars.
**WEBER CONCRETE REPAIR MATERIALS**

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>weber.cem keycoat</td>
<td>25</td>
<td>1kg per m2</td>
</tr>
<tr>
<td>weber.cem mortar</td>
<td>25</td>
<td>1m2 @ 12mm thick - 12 litres</td>
</tr>
<tr>
<td>weber.cem lightweight</td>
<td>20</td>
<td>1m2 @ 16mm thick - 16 litres</td>
</tr>
<tr>
<td>weber.cem HB30 and HB40</td>
<td>20</td>
<td>16 litres per 20kg bag or 0.5m2 at 30mm thickness</td>
</tr>
<tr>
<td>weber.cem fairing coat</td>
<td>25</td>
<td>13 litres per 25kg bag or 6.5m2 per bag at 2mm thickness</td>
</tr>
<tr>
<td>weber.cem spray DS</td>
<td>25</td>
<td>Approximately 11.5 litres per 25kg bag, allowance must be made for rebound and profiling</td>
</tr>
<tr>
<td>weber.cem pyrapatch</td>
<td>25</td>
<td>approximately 12 litres</td>
</tr>
<tr>
<td>weber.cem pyratop</td>
<td>25</td>
<td>approximately 12 litres</td>
</tr>
<tr>
<td>Five Star repair concrete</td>
<td>25</td>
<td>12.75 litres</td>
</tr>
<tr>
<td>weber.tec EP bonding aid</td>
<td>5.6</td>
<td>1.2m2 - 2.5m2/kg</td>
</tr>
</tbody>
</table>

**EPOXY PLUS BONDING AID**

An epoxy primer for protection to reinforcement steel prior to application of weber.cem Concrete Repair System and Five Star Repair Concrete.

**Bonding Aid**

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Yield (litre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonding Aid</td>
<td>0.56</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>5.6</td>
<td>5.0</td>
</tr>
</tbody>
</table>

**WEBER RESIN REPAIR MORTARS**

**weber.tec EP mortar**

Is a three-component bulk pack or as a two-component handy pack, consisting of epoxy resin, hardener and selected graded aggregates (filler) which when mixed produce a high strength, impermeable and chemically resistant mortar.

**weber.tec bedding mortar**

A two-component, polyester-based mortar for the bedding and fixing of manhole frames, airport landing lights, duct frames and precast concrete units. It has been formulated for easy mixing and placement, even at low temperatures and, when cured, provides a durable, chemically resistant bedding and fixing material with good bond strength.
weber.tec mortar
Is a three-component bulk pack or as a two-component handy pack, consisting of polyester resin, hardener and selected graded aggregates (filler) which when mixed produce a high strength, impermeable and chemically resistant mortar.

Weber Repair Mortars

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>weber.tec EP mortar</td>
<td>26kg pack Yield approx 12.5 litres</td>
<td></td>
</tr>
<tr>
<td>weber.tec EP highbuild</td>
<td>16kg pack approx. 12 litres</td>
<td></td>
</tr>
<tr>
<td>weber.tec EP IK</td>
<td>0.6 litre weber.tec EP IK filler</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 x 0.25 litre weber.tec injection resin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10 x Injection nipples</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 x 320cc plastic cartridges, plungers and nozzles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 x tube clamp</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Applicator gun</td>
<td></td>
</tr>
<tr>
<td></td>
<td>300mm x 6.5mm dia. plastic tube</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Disposable plastic gloves</td>
<td></td>
</tr>
<tr>
<td></td>
<td>mall jubilee clip to hold tubing on nipples</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Detailed instruction sheet</td>
<td></td>
</tr>
<tr>
<td>weber.tec EP</td>
<td>5 litre packs</td>
<td>1 litre of mixed resin will fill 10 metres</td>
</tr>
<tr>
<td>injection resins</td>
<td></td>
<td>of crack at 1mm wide and 100mm depth</td>
</tr>
<tr>
<td>weber.tec EP bonding aid</td>
<td>5.6kg packs</td>
<td>1.2m2 - 2.5m2/kg</td>
</tr>
<tr>
<td>weber.tec bedding mortar</td>
<td>25kg</td>
<td>12 litres</td>
</tr>
<tr>
<td>weber.tec mortar</td>
<td>25kg</td>
<td>12.5 litres</td>
</tr>
</tbody>
</table>

WEBER.TEC SEALERS

weber.tec mulsibond
A low viscosity, specially blended acrylic copolymer emulsion-based product with exceptional penetrating properties. It has been used successfully for sealing hairline cracks in reinforced concrete, granolithic, mosaic and terrazzo floors and for consolidating hollow floor screeds.

weber.tec Sealers

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (litres)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>weber.tec aquapel WR</td>
<td>5, 25, 200*</td>
<td>Approx 3 - 6m2 per litre</td>
</tr>
<tr>
<td>weber.tec acrylic sealer</td>
<td>5, 25, 200*</td>
<td>8 - 16m2 per litre per coat</td>
</tr>
<tr>
<td>weber.tec mulsibond</td>
<td>5, 25</td>
<td></td>
</tr>
</tbody>
</table>

*non-returnable.
WEBER.COTE COATINGS (WAS MULSICOAT COATINGS)
Single-component, acrylic anti-carbonation coatings for the long term protection of existing concrete and new repairs. Available in clear, pigmented smooth, flexible and elastomeric versions. weber.cote coatings are applied by brush, roller or airless spray in two coats. If stabilisation of the concrete is required prior to application, the surface should be treated using weber.cote primer (was sealercoat).

The coverage of weber.cote coatings will vary depending on the type of substrate and the surface porosity. The following is a guide for brush or roller application two coats on to smooth surfaces.

**weber.cote clear**
External decorative anti-carbonation coating in a clear finish.

**weber.cote smooth**
External decorative anti-carbonation coating in a smooth finish.

**weber.cote EC**
Elastomeric flexible anti-carbonation coating for concrete.

**weber.cote primer**
Stabilises and seals substrate prior to the application of Weber.cote smooth or Elastomeric.

### weber.cote Coatings

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (litres)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>weber.cote clear</td>
<td>15</td>
<td>2 - 2.5m²/litre in 2 coats</td>
</tr>
<tr>
<td>weber.cote smooth</td>
<td>15</td>
<td>3 - 6m²/litre in 2 coats</td>
</tr>
<tr>
<td>weber.cote EC</td>
<td>15</td>
<td>1 - 2m²/litre in 2 coats</td>
</tr>
<tr>
<td>weber.cote primer</td>
<td>5</td>
<td>10 - 12m²/litre</td>
</tr>
</tbody>
</table>
**MAPEFER 1K – STEEL PROTECTION**
Active corrosion inhibitor for the protection of steel reinforcement rods. Bright blue in colour – useful to see where it has been applied. When mixed with water it’s a highly workable mortar that’s easy to apply. Once hardened it’s impermeable to water and aggressive gases in the atmosphere and saline fog.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapefer 1K – Steel Protection</td>
<td>Boxes of 4 x 5kg sachets</td>
<td>100 g/m for 8 mm diameter rebar (2 mm of product applied).</td>
</tr>
</tbody>
</table>

**PLANITOP SMOOTH & REPAIR (RASA & RIPARA) – R2 MORTAR**
Fibre-reinforced, shrinkage compensated, thixotropic cementitious mortar for repairing and smoothing concrete. 3-40mm application in a single layer. Suitable for ‘feather-edging’, quick setting – approx. 30 minutes.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planitop Smooth &amp; Repair (Rasa &amp; Ripara) – R2 Mortar</td>
<td>25kg bag</td>
<td>14 kg/m² per cm of thickness</td>
</tr>
</tbody>
</table>

**MAPEGROUT T40 – R3 MORTAR**
Medium strength thixotropic mortar for the general reinstatement of concrete. Ideal for balconies and corners of beams and columns. Versatile – also recommended for tunnels, canal works and water works in general. Easily applied to vertical surfaces without shuttering.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapegrout T40 – R3 Mortar</td>
<td>25kg bag</td>
<td>18.5 kg/m² per cm of thickness.</td>
</tr>
</tbody>
</table>

Belfast: 028 9038 4745  
Cork: 021 452 0202  
Dublin: 01 401 0222  
www.sigca.ie  
e. enquires@sigca.ie
**MAPEGROUT T60 – R4 HAND/SPRAY MORTAR**
Thixotropic, fibre-reinforced structural repair mortar. Repairs damaged concrete surfaces such as balconies and corners of columns and beams. Recommended for repair work in tunnels, canals and waterworks. Repairs up to 40 mm thick in a single coat can be made.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapegrout T60 – R4 Hand/Spray Mortar</td>
<td>25kg bag</td>
<td>18.5 kg/m² per cm of thickness.</td>
</tr>
</tbody>
</table>

**PLANITOP SMOOTH & REPAIR R4 (RASA & RIPARA R4) – R4 MORTAR**
Structural R4-class, rapid-setting, shrinkage-compensated, thixotropic, fibre-reinforced, cementitious mortar 3-40mm application in a single layer. For structural repairs and smoothing over internal and external horizontal and vertical surfaces, suitable for repairing structures exposed to the open air and in permanent contact with water.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planitop Smooth &amp; Repair R4 (Rasa &amp; Ripara R4) – R4 Mortar</td>
<td>25kg bag</td>
<td>17 kg/m² per cm of thickness.</td>
</tr>
</tbody>
</table>

**MAPEFILL GP – GENERAL PURPOSE NON-SHRINK GROUT**
General purpose non-shrink grout recommended for grouting voids in structural elements. Filling gaps in precast elements; anchoring steel bars, grouting base plates and bridge bearings, concrete repair (when poured into shutters) Possible to add aggregates.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapefill GP – General Purpose Non-Shrink Grout</td>
<td>25kg bag</td>
<td>Every 25kg bag can yield approx. 14 litres of grout</td>
</tr>
</tbody>
</table>
PLANITOP 200 – LEVELLING MORTAR
Water-repellent cementitious skimming mortar with a finetextured, natural finish for concrete and plastic, glass and porcelain coverings. Can be applied over existing sound coatings, can be built up to 6mm, can be applied over existing, well anchored paint.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planitop 200 – Levelling Mortar</td>
<td>25kg bag</td>
<td>1.3 kg/m² per mm of thickness.</td>
</tr>
</tbody>
</table>

PLANITOP SR – ONE COMPONENT NHL-BASED MORTAR
One component high performance fibre-reinforced natural hydraulic lime-based mortar for making “reinforced” composite structural render. Can be applied over masonry or concrete, can be built up to 12mm, incorporates a structural net (Mapenet EM 30/40) as part of the system Can be spray applied or hand placed.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planitop SR – One Component NHL-based Mortar</td>
<td>25kg bag</td>
<td>14.5 kg/m² per cm of thickness.</td>
</tr>
</tbody>
</table>

MAPESHIELD CI 100 – SURFACE APPLIED CORROSION INHIBITOR
Mapeshield CI 100 is a surface applied corrosion inhibitor, designed to penetrate concrete structures and protect embedded steel reinforcement. Steel-reinforced concrete such as bridges, highways and parking structures, marine structures, such as piers, piles and concrete jetties. Concrete-framed building facades and balconies. Tunnels and other underground structures, waste water treatment tanks and concrete pipes

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapeshield CI 100 – Surface Applied Corrosion Inhibitor</td>
<td>20 litre tub, 208 litre drum</td>
<td>2.45/6 m² per litre</td>
</tr>
</tbody>
</table>
### MAPEGROUT EASY FLOW – R4 WET SPRAY MORTAR
Fibre-reinforced, shrinkage compensated, thixotropic mortar particularly suitable for repairing concrete structures with a rendering machine. Low rebound, can be built up to 120mm, suitable when pumping over long distances and to elevated positions.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapegrout Easy Flow – R4 Wet Spray Mortar</td>
<td>25kg bag</td>
<td>18.5 kg/m² per cm of thickness.</td>
</tr>
</tbody>
</table>

### MAPEGROUT GUNITE – DRY SPRAY MORTAR
Premixed non-accelerated cementitious grout for use as dry mix shotcrete for the repair of concrete. Use for all repairs of damaged concrete, such as concrete coverings in road tunnels, repair of damaged bridges, repair of hydro works, reservoirs, industrial concrete structures, etc. Can be used for structural repairs, can be applied in thicknesses up to 40 mm per coat without using formwork.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapegrout Gunite – Dry Spray Mortar</td>
<td>25kg bag</td>
<td>20 kg/m² per cm of thickness.</td>
</tr>
</tbody>
</table>

### PLANITOP 100 – FINE MORTAR
Quick-setting, light-grey coloured fine mortar for repairing and smoothing concrete and render. For repairing and finishing porous or chipped cement-based surfaces. Evening out surface imperfections in prefabricated concrete. Finishing cement renders or lime and cement mortar prior to painting with Mapei Elastocolor Rapid finishing to concrete facings repaired with Mapei Mapegrout products.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planitop 100 – Fine Mortar</td>
<td>25kg bag</td>
<td>20 kg/m² per cm of thickness.</td>
</tr>
</tbody>
</table>
MAPECRETE CRÈME PROTECTION
Solvent-free silane-based, thixotropic impregnating cream in water dispersion. Ideal for hydrophobic treatment of concrete.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapecrete Crème Protection</td>
<td>25kg drum</td>
<td>0.1-0.4 kg/m² according to the level of absorption of the concrete.</td>
</tr>
</tbody>
</table>

MAPESHIELD I – PURE ZINC SACRIFICAL ANODES
Pure zinc anodes coated with a special conductive paste, for galvanic cathodic protection against corrosion of steel reinforcement in new structures and in structures requiring repair.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapeshield I – Pure Zinc Sacrificial Anodes</td>
<td>Mapeshield I 10/10 10cm in length Mapeshield I 10/30 30cm in length</td>
</tr>
</tbody>
</table>

MAPESHIELD E25 – SELF-ADHESIVE ZINC SHEET
Self-adhesive zinc sheet to be applied directly on the structure surface.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapeshield E25 – Self-adhesive Zinc Sheet</td>
<td>Wooden boxes with 1 25 m x 25 cm wide rolls.</td>
<td>according to the density of steel reinforcement.</td>
</tr>
</tbody>
</table>
ADESILEX PG1 – EPOXY BONDING ADHESIVE
Two-component, rapid-setting thixotropic adhesive for structural bonds, multiple use, Carbon fibre plates adhesive.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adesilex PG1 – Epoxy Bonding Adhesive</td>
<td>25kg bag</td>
<td>14.5 kg/m² per cm of thickness.</td>
</tr>
</tbody>
</table>

MAPEWRAP – CARBON/GLASS/BASALT SHEETS
Fast-setting and hardening easy flow mortar for repairing concrete, joints, fastening drains, manhole covers and roadwork fittings in place. 3 Different orientations / 6 Different strengths, steel option available.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapewrap – Carbon/Glass/Basalt Sheets</td>
<td>30cm wide x 50 metres long</td>
<td>15m²</td>
</tr>
</tbody>
</table>

CARBOPLATE – PULTRUDED CARBON FIBRE PLATES
Medium strength thixotropic mortar for the general reinstatement of concrete. Ideal for balconies and corners of beams and columns. Versatile – also recommended for tunnels, canal works and water works in general. Easily applied to vertical surfaces without shuttering.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carboplate – Pultruded Carbon Fibre Plates</td>
<td>Thickness: 1.4 mm. Width: 50, 100 and 150 mm. Resistant section: 70, 140 and 210mm².</td>
</tr>
</tbody>
</table>
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