Concrete Repair

- Corrosion Inhibitors ........................................ 124
- Cementitious Repair Products ......................... 124
- Concrete Repair - Epoxy/Polyurea .................. 134
- Injection Systems ........................................... 140
- Expansion & Cold Joint Reinforcement .......... 146
- Waterstops ................................................... 151
- Bitumen Coldmix Repair ................................. 152
Concrete Repair

CORROSION INHIBITORS

Mapei® Mapefer 1K

- Single component corrosion-inhibiting cement mortar for the protection of reinforcing rods.
- Mapefer 1K is used as a re-alkalising corrosion-inhibiting product for the protection of reinforcing rods in the repatriation of concrete carried out with shrinkage compensating mortars from the Maegroup range.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>5 kg</td>
<td>203-105</td>
</tr>
</tbody>
</table>

CEMENTITIOUS REPAIR PRODUCTS

Aftek Penaflow GP Grout

Aftek Penaflow GP Grout is a Class A construction grout based on a blend of Portland cement, high quality graded aggregates and additives, which control expansion whilst the grout is in a plastic state.

Recommended Uses:
- General purpose grout.
- Grouting underneath precast panels and concrete sections.
- Anchor bolts filling.
- Filling in cavities, gaps and base infills.
- Filling in core holes created in panels by core drilling.
- Suitable for block work in core filling.

Features & Benefits:
- Shrinkage compensated.
- Gaseous expansion while in plastic state eliminates shrinkage and settlement.
- Non-metallic iron content eliminates staining.
- Can be dry packed, rammed, trowelled or poured.
- Pumpable for larger applications.
- Grouting from 10mm to 150mm in a single application.
- Australian made.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg bag</td>
<td>104-092</td>
</tr>
</tbody>
</table>
CEMENTITIOUS REPAIR PRODUCTS

Aftek Penaflow UW Grout

Aftek Penaflow Grout UW is a high performance construction grout based on a blend of Portland cement, high quality graded aggregates and additives, which control expansion whilst the grout is in a plastic state. Penaflow Grout UW can be used underwater or in tidal zone applications. Penaflow Grout UW will not wash out when submerged in water and is ideal for underwater concrete piling.

Recommended Uses:
- General purpose grout, concrete piling underwater.
- Grouting underneath precast panels and concrete sections.
- Anchor bolts filling, filling in cavities, gaps and base infills.
- Displaces water, re-instatement of dam walls.
- Wharf columns re-instatement, concrete piling in wet/ damp conditions.

Features & Benefits:
- Shrinkage compensated.
- Gaseous expansion while in plastic state eliminates shrinkage and settlement.
- Displaces water, does not wash out in water.
- Non-metallic iron content eliminates staining, can be dry packed, rammed, troweled or poured.
- Pumpable for larger applications, grouting from 20mm to 150mm in a single application.
- Lower cement/water ratio, reduces drying shrinkage, durable.
- Dimensionally stable, Australian made.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg bag</td>
<td>104-090</td>
</tr>
</tbody>
</table>

Aftek Penatech HES Grout

Penatech HES Grout is a high early strength gain, flowable, shrinkage compensated, Class C grout for use where rapid strength gain is required. Penatech HES Grout complies with ASTM C1107-91 for Class C Grout. Penatech HES Grout comprises a blend of Portland cements, graded fillers and chemical additives which impart controlled expansion in the plastic and hardened states whilst minimising water demand and maximizing early compressive strength gain. Penatech HES Grout is supplied as a ready to use powder, requiring only the addition of clean water to produce a flowable consistency non-shrink grout.

Recommended Uses:
- Cementitious grouting where high early strength is required.
- Heavy duty support grout, high load machine base plates.
- Precast grouting applications, anchoring bolt holes.
- Bridge bearing pads, crane rail plates, cavities gaps and recesses.
- Rapid reinstatement of equipment (minimise downtime).
- Grouting requiring dynamic load bearing and applications subject to continuous vibration.

Features & Benefits:
- High early strength, even at low temperatures.
- Dual stage expansion compensates for shrinkage in both the plastic and hardened states.
- High ultimate strength (28 days), exceptional flow characteristics.
- Rapid strength gain and set times, variable consistency obtainable.
- Equipment and machinery can be reinstated after 24 hours.
- Non-metallic iron eliminates staining, good impact and thermal resistance.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg bag</td>
<td>104-091</td>
</tr>
</tbody>
</table>
CEMENTITIOUS REPAIR PRODUCTS

**Aftek Penatech LA**

High performance, micro concrete, high flow (Class C) cementitious grout designed for large or deep pour applications.
- Application thickness 10mm-800mm in a single application.
- Dual expansion compensates for shrinkage in the plastic and hardened state.
- Excellent flow retention, for large application thicknesses.
- Ready to use, pre-mixed, and requires only the addition of water.
- Can be mixed flowable or fluid, no metallic content to cause staining.

**Recommended Uses:**
- Cementitious grouting where high flow, high application thickness is required.
- Heavy duty support beneath machine base plates, bridge bearing and crane rails.
- Anchoring bolts, bars and fittings, underpinning, precision grouting application.
- Applications subject to continuous vibrations and dynamic loads.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg bag</td>
<td>104-093</td>
</tr>
</tbody>
</table>

**Aftek Structural Repair HB80**

Aftek Penapatch Structural HB80 is a high strength, high build shrinkage compensated structural repair mortar. Structural HB80 is designed to be used for vertical or horizontal applications. Structural HB80 has high, ultimate compressive strength and high abrasion resistance. The specially selected cements and polymers contained in Structural HB80 provide a mortar with strong adhesion to concrete and masonry on vertical and horizontal substrates with negligible shrinkage. Structural HB80 requires the addition of water only.

**Recommended Uses:**
- High build repairs for vertical, overhead and horizontal repairs.
- Repairs requiring high compressive strength, repairing damaged concrete panels where structural strength is required. Repairs to spalled or deteriorated concrete caused by corrosion of steel reinforcement.
- High build repair applications 5mm to 80mm for vertical surfaces.
- May be applied in verticals up to 160mm in small pockets or with the aid of formwork.
- Repairs requiring low permeability and high resistance to chlorides and carbon dioxide.
- Can be applied up to 180mm in horizontal surfaces.

**Features & Benefits:**
- High ultimate compressive strength, high build repairs achievable in a single application.
- Low permeability providing protection from chloride attack and carbonation.
- High strength and high abrasion resistance.
- Dimensionally stable, excellent workability, shrinkage compensated.
- Shrinkage compensated allowing for long term dimensional stability.
- Eliminates the need for formwork, internal or external applications.
- Can be applied by dry or wet process, achieving high build with exceptional compaction and enhanced performance.
- May be coated with Aftek range of protective coatings
- Exceptional bond strength to concrete substrates.
- Pre-bagged eliminates any on-site mixing variation.
- Easy to use - simply add water and mix.
- Australian made.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg bag</td>
<td>104-094</td>
</tr>
</tbody>
</table>
CEMENTITIOUS REPAIR PRODUCTS

Aftek Fairing Coat Mortar

Aftek Fairing Coat Mortar is a fine textured, fast setting, cementitious mortar, specifically formulated for repair of damaged concrete where only a thin layer is required. The specially selected cements and polymers contained in Aftek Fairing Coat Mortar produce a fast setting mortar with exceptional adhesion to concrete and masonry materials with negligible shrinkage. Aftek Fairing Coat Mortar cures to an exceptionally smooth textured surface that does not reflect through subsequently applied architectural coatings.

Features & Benefits:
• Fast setting, smooth textured surface, excellent bond to concrete.
• Easy to use, durable repair.
• Set times @ 20°C - Initial Set 25 minutes, final set 50 minutes.
• Compressive strength - 28 days 20 MPa.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg bag</td>
<td>104-095</td>
</tr>
</tbody>
</table>

Bostik Techflow Grout GP

• A high performance, high strength nonshrink dual expansion and precision Class C cementitious grout.
• The highly fluid free flowing grout is a blend of Portland cement and graded aggregate.
• Dual expansion compensates for shrinkage in both plastic and hardened states.
• For grouting gap distances 10mm to 140mm in a single application.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg bag</td>
<td>203-132</td>
</tr>
</tbody>
</table>

Bostik Flowfill GP

• A multi-purpose non shrink Class A cementitious construction patch repair grout.
• Economical and ready to use. Superb fluid consistency.
• Can be dry packed, rammed, trowelled, poured and pumped.
• Economical, low in place cost.
• Absence of metallic iron content to prevent staining.
• Lower water to cement ratio reduces drying shrinkage, increases durability and reduces permeability.
• Excellent flow characteristics.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg bag</td>
<td>104-010</td>
</tr>
</tbody>
</table>
CEMENTITIOUS REPAIR PRODUCTS

**Bostik Techflow Grout HS**
- High performance, high strength, non shrink dual expansion, precision Class C cementitious patch repair construction grout.
- The highly fluid free flowing grout is a blend of Portland cement and graded aggregate. Dual expansion compensates for shrinkage in both plastic and hardened states. For grouting gap distances 10 mm-140 mm in a single application.
- Can be dry packed, rammed, trowelled, poured and pumped.
- Economical, low in place cost, ready to use, requires only water.
- Absence of metallic iron content to prevent staining.
- Lower water to cement ratio reduces drying shrinkage, increases durability and reduces permeability, excellent flow characteristics and retention.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg bag</td>
<td>203-133</td>
</tr>
</tbody>
</table>

**Bostik Techflow Grout HES**
- High performance, high early strength, no shrink dual expansion Class C cementitious patch repair construction grout.
- Can be poured or pumped.
- Economical, low in place cost and ready to use, only requires water.
- Absence of metallic iron content to prevent staining.
- Lower water to cement ratio reduces drying shrinkage, increases durability and reduces permeability, excellent flow characteristics.
- Rapid strength gain facilitates rapid installation and operation of plant within a matter of hours.
- Equipment and machinery may be placed in service in 2 hours.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg bag</td>
<td>104-077</td>
</tr>
</tbody>
</table>

**Bostik Techflow LA Grout**
- A high performance, high flow micro concrete Class C grout.
- For grouting gap distances 10 mm to 400 mm in a single application.
- Dual expansion compensates for shrinkage in the plastic and hardened state.
- Gaseous expansion system compensates for shrinkage and settlement whilst in the plastic state.
- Can be trowelled, poured and pumped.
- Economical, low in place cost.
- Fills intricate cavities.
- Low heat of exotherm reduces cracking and shrinkage.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg bag</td>
<td>203-134</td>
</tr>
</tbody>
</table>
CEMENTITIOUS REPAIR PRODUCTS

Bostik Flowfill Ultrafine Grout

- A multipurpose fine grade non shrink Class A cementitious grout.
- Flowfill Ultrafine Grout is based on Portland cement, ultra fine graded aggregate and chemical additives, which impart controlled expansion whilst in the plastic state.
- The gaseous expansion system compensates for shrinkage and settlement in the plastic state.
- All general purpose grouting.
- Precast and prestressed panels.
- Grouting in column based, base infilling, filling core holes, rod holes and defects in concrete.
- Fill in grout for hollow block walls, joints between precast panels and other joints.
- Tilt slab panels, caulking of joints and pipes.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg bag</td>
<td>203-136</td>
</tr>
</tbody>
</table>

Bostik Flowfill Grout UW

- A non shrink Class A cementitious grout designed for underwater applications.
- Flowfill Grout UW is based on Portland cement, graded aggregate and chemical additives, which impart controlled expansion whilst in the plastic state.
- Flowfill Grout UW is used for free flow or pumped grouting applications underwater or in tidal zones.
- There is no significant “wash-out” of the cement paste and in fact displaces water when used in submerged conditions.
- Uses: bridge columns, quarry pillars, concrete piling, slipways, dams, wharf columns.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg bag</td>
<td>203-137</td>
</tr>
</tbody>
</table>

Bostik Patchfix Structural HB

- High strength, high build polymer modified concrete construction structural repair mortar.
- High ultimate compressive strength and abrasion resistance.
- Superb durability.
- Shrinkage compensated allows for long term dimensional stability.
- One component, requires only water.
- Easy to use, excellent workability.
- Low permeability offers protection from chloride attack and carbonation.
- May be coated with Bostik range of protective coatings.
- Reduces need for formwork.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg bag</td>
<td>203-202</td>
</tr>
</tbody>
</table>
CEMENTITIOUS REPAIR PRODUCTS

**Bostik Patchfix Fine Render**
- Polymer modified fairing coat.
- Can be applied from feather edge to 5mm in thickness and has a natural concrete grey appearance.
- Bostik Patchfix Fine Render is shrinkage compensated and based on hydraulic bonders, high grade quartz sand and synthetic polymers.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg</td>
<td>203-203</td>
</tr>
</tbody>
</table>

**Krystol Mortar Admixture™ (KMA)**
- It is a chemical admixture in dry powdered form which is specifically formulated to provide long-term protection in rendering/plastering mortar, masonry mortar and concrete masonry units.
- KMA can often be used in place of externally applied surface sealers to protect against water and waterborne contaminants and can be easily incorporated into the existing mix design and application processes.
- KMA contains Kryton’s unique and proven Krystol® technology which reacts with cement particles to form millions of needlelike crystals, reducing both permeability and absorption of the mortar by filling the naturally occurring pores and voids in cementitious mortar.
- Krystol technology helps to simplify installation and provide superior performance such as its ability to self-seal minor cracks and withstand water under pressure.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off White</td>
<td>15 kg drum</td>
<td>420-401</td>
</tr>
</tbody>
</table>

**Krystol Bari-Cote™**
- A high strength waterproof grout that is specially designed to repair leaking cracks, holes and joints.
- Krystol Bari-Cote contains special ingredients that react chemically within concrete to form millions of needle like crystals.
- These crystals grow deep into the capillary pores of the grout and surrounding concrete to block the passage of water.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>25 kg</td>
<td>203-205</td>
</tr>
<tr>
<td>Grey</td>
<td>5 kg</td>
<td>203-208</td>
</tr>
</tbody>
</table>
CEMENTITIOUS REPAIR PRODUCTS

Krystol Plasti-Patch™

- Plasti-Patch™ is a high-performance, single component, self-bonding concrete patching and repair mortar.
- It is designed for concrete and masonry.
- No shrinkage after placement.
- High flexural strength and impact resistance.
- Very high compressive strength.
- Excellent bonding properties.
- Resistant to wet freeze thaw cycles.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dark Grey</td>
<td>25 kg drum</td>
<td>420-403</td>
</tr>
</tbody>
</table>

Mapei® Mapegrout RAPIDO (Fast-Set)

A controlled-shrinkage, fibre-reinforced mortar, that is rapid setting and hardening for the repair of concrete. Use to repair damaged concrete surfaces such as balconies and the edges of beams and columns.

- Mixed with water; Mapegrout Fast-Set becomes an easily trowelable mortar with such good thixotropic properties that it can be applied up to 50mm thick on vertical surfaces with no need for formwork.
- Mapegrout Fast-Set sets in 20 minutes and can be subjected to loads a few hours after application.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>25 kg</td>
<td>104-044</td>
</tr>
</tbody>
</table>

Mapei® Mapegrout T40

Medium strength (40 MPa), fibre reinforced, thixotropic mortar for the repair of concrete. Use to repair damaged concrete surfaces such as balconies and corners of columns and beams. Also recommended for repair work in tunnels, canals and water works and can be used to repair surfaces permanently in contact with drinking water to a thickness of up to 30-35mm per coat.

When fully cured mapegrout T40

- Has moderate flexural strength.
- It is waterproof.
- Has a modulus of elasticity, thermal expansion coefficient and permeability coefficient similar to that of medium quality concrete.
- Has excellent adhesion to existing concrete surfaces provided they are saturated with water and reinforcing bars are first treated with Mapefer 1K.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>25 kg</td>
<td>104-020</td>
</tr>
</tbody>
</table>
# CEMENTITIOUS REPAIR PRODUCTS

## Mapei® Mapegrout T60

- Sulphate-resistant, fibre-reinforced, thixotropic mortar for the repair of concrete.
- For repair work in tunnels, canals and water works in general.
- Use to repair damaged concrete surfaces such as balconies and corners of columns and beams to a thickness of up to 40mm per coat.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>25 kg</td>
<td>104-040</td>
</tr>
</tbody>
</table>

## Mapei® Planitop® XS

- Shrinkage compensated, fibre reinforced, polymer modified and containing proprietary corrosion inhibitor. Planitop XS features Planitop X’s outstanding workability and versatility.
- Ideal for a wide variety of vertical, overhead and horizontal concrete repairs.
- Planitop XS can be applied from feather edge to 100mm per lift.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>22.7 kg</td>
<td>104-021</td>
</tr>
</tbody>
</table>

## Mapei® Nivoplan

- Levelling mortar for interior and exterior walls and ceilings.
- Used for levelling “out-of-plumb” walls, rough or damaged renders and brick walls before laying ceramic tiles.
- Suitable for applying in thin coats on all conventional concrete surfaces.
- Add Mapei® Planicrete to improve bonding and the consistency of thin coats.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>20 kg</td>
<td>101-056</td>
</tr>
</tbody>
</table>
Bostik Construction Grouts

Bostik cementitious grouts are examples of how formulated products offer specific qualities to the construction industry. The core range comprises of Class A and Class C products, engineered to suit the predominate end use applications in construction. Complementing the core products, a range of specialty grouts has been designed to satisfy specific project or industry needs.

Grout Selection Chart

**Core Grouts**
- **General Purpose (Class A)**
  - Consistency: stiff, plastic, flowable, fluid
  - Application thickness: 20 - 120mm
  - Performance:
    - Compressive strength 60MPa @ 28 days
    - Compressive strength 50MPa @ 28 days
  - Bostik Specification:
    - Flowfill Grout GP
    - Flowfill Panel Grout

**Performance Grouting (Class C)**
- Consistency: stiff, plastic, flowable, fluid
- Application thickness: 10 - 140mm
- Performance:
  - Compressive strength 60MPa @ 28 days
  - Compressive strength 40MPa @ 4 hours
  - Bostik Specification:
    - Techflow Grout GP
    - Techflow Grout HES

**Specialty Grouts**
- **High strength, non-rapid setting**
  - Consistency: stiff, plastic, flowable, fluid
  - Application thickness: 10 - 140mm
  - Performance:
    - Compressive strength 83MPa @ 28 days
  - Bostik Specification:
    - Techflow Grout HS (Class C)

- **Marine/underwater application**
  - Consistency: flowable
  - Application thickness: 20 - 150mm
  - Performance:
    - Compressive strength 60MPa @ 28 days
  - Bostik Specification:
    - Flowfill Grout UW (Class A)

- **High flow, high application thickness**
  - Consistency: flowable, fluid
  - Application thickness: 10 - 400mm
  - Performance:
    - Compressive strength 83MPa @ 28 days
  - Bostik Specification:
    - Techflow LA Grout (Class C)

**Epoxy Grout**
- **Superior strength epoxy**
  - Consistency: flowable, fluid
  - Application thickness: Feather - 200mm
  - Performance:
    - Compressive strength 110MPa @ 7 days
  - Bostik Specification:
    - Techflow Epoxy Grout

*Note: Compressive strength values stated above are based on Flowable state.*

www.bostik.com.au
Aftek Epilox Epoxy Binder is a two-part solvent-free epoxy resin binder system for combining with selected fillers and aggregate to produce epoxy mortars of various consistencies.

Ideal for: bonding, sealing, priming, coating and grouting. May be used on vertical or horizontal applications as structural epoxy adhesive paste and filler. Epilox Epoxy Binder is also used as a primer for Epilox floor coatings and toppings as well as Epilox mortars.

**Recommended Uses:**
- Suitable for use on damp substrates.
- Preparing high strength mortar for repair of damaged concrete or masonry in vertical or horizontal surfaces.
- Grouting starter bars, load bearing bolts and base plate supports in concrete.
- Sealing of cracks in concrete.
- Filling of voids in spalled concrete to restore to original condition with enhanced strength performance.
- As a repair mortar where high chemical and abrasion resistance is required.
- Patching large sections where high strengths are required.
- May be used in flowable consistency or trowellable consistency to cater for any repair shape or size.
- Can be used for external applications.
- High adhesive bond strength to concrete.
- Structural bonding new to old concrete.
- Structural repair to spalled concrete.
- As a primer for Epilox floor coatings.
- Addition of Epilox Fillers to produce Epoxy mortars and grouts.

**Features & Benefits:**
- 100% solids epoxy.
- Solvent free.
- Low VOC.
- High tensile and compressive strength.
- Bonds to damp concrete.
- High mechanical strength.
- Excellent adhesion to most substrates.
- Cures at temperature down to 5˚C.
- High chemical resistance.
- Unfilled system.
- Allows for mortars and grouts to be mixed to any desirable consistency.
- 3-4 times stronger than typical concrete.
- Australian made.
- Convenient mix ratio - (2 parts Resin - 1 part Hardener).

**Colour** | **Size** | **Code**
--- | --- | ---
Amber | 6 litre kit | 203-100
Amber | 30 litre kit | 203-101
CONCRETE REPAIR - EPOXY/POLYUREA

Bostik Patchfix Epoxy Mortar Binder

- Two part solvent free epoxy resin binder system.
- For combining selected fillers and aggregate to produce epoxy mortars of various consistencies.
- Ideal for bonding, sealing, priming, coating and grouting.
- May be used on vertical and horizontal applications as a structural epoxy adhesive paste and filler.
- Bostik Fine and Course fillers and aggregates may be added to produce mortars of various consistencies.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amber</td>
<td>2 litre kit</td>
<td>204-521</td>
</tr>
<tr>
<td>Amber</td>
<td>4 litre kit</td>
<td>204-522</td>
</tr>
<tr>
<td>Amber</td>
<td>20 litre kit</td>
<td>204-523</td>
</tr>
</tbody>
</table>

Bostik Techflow Epoxy Grout

- A two part, high performance, prefilled epoxy liquid, suitable for use as a pourable or trowelable grouting material and in bonding new to old concrete.
- Bostik Patchfix course fine fillers may be added to produce a trowelable high build mortar or a pourable flowable grout.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>4 litre kit</td>
<td>204-391</td>
</tr>
<tr>
<td>Grey</td>
<td>10 litre kit</td>
<td>204-392</td>
</tr>
</tbody>
</table>

Epirez Crack Repair Epoxy Sealer (123)

- High strength epoxy offering low mixed viscosity and fast hardening with excellent adhesion and high compressive and tensile strength.
- Ideal for pressure injected structural repair of cracked and damaged concrete.
- Will also bond to damp surfaces.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amber</td>
<td>300 ml</td>
<td>202-121</td>
</tr>
<tr>
<td>Amber</td>
<td>1.5 litre</td>
<td>202-123</td>
</tr>
<tr>
<td>Amber</td>
<td>6 litre</td>
<td>202-126</td>
</tr>
<tr>
<td>Amber</td>
<td>25 litre</td>
<td>202-127</td>
</tr>
</tbody>
</table>
CONCRETE REPAIR - EPOXY/POLYUREA

Epirez General Purpose Epoxy Mortar Binder (133)

- Multi-purpose epoxy binder suitable for a wide variety of applications.
- Solvent free epoxy mortar or concrete binder designed for applications demanding high structural integrity and offers low mixed viscosity, hydro-phobic characteristics (bonds to damp surfaces) along with fast hardening to produce mortars exhibiting excellent adhesion and high compressive and tensile strengths.
- AS4020 Potable Water Approved.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear</td>
<td>1 litre</td>
<td>202-130</td>
</tr>
<tr>
<td>Clear</td>
<td>4 litre</td>
<td>202-132</td>
</tr>
<tr>
<td>Clear</td>
<td>20 litre</td>
<td>202-133</td>
</tr>
</tbody>
</table>

Pea Gravel

- 7mm pea gravel for bulking out certain grouts and levelling Newton Basedrain.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>7mm x 20kg bag</td>
<td>204-209</td>
</tr>
</tbody>
</table>

Epirez Non-Sag Epoxy Mortar Binder (633)

- Solvent free binder suitable for application to overhead, vertical or inclined surfaces.
- Can be applied to damp or wet surfaces.
- AS4020 Potable Water Approved.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>1 litre</td>
<td>202-160</td>
</tr>
<tr>
<td>Grey</td>
<td>4 litre</td>
<td>202-162</td>
</tr>
<tr>
<td>Grey</td>
<td>20 litre</td>
<td>202-163</td>
</tr>
</tbody>
</table>
CONCRETE REPAIR - EPOXY/POLYUREA

**SealBoss™ 6060 Quickfix**

SealBoss 6060 QuickFix is an advanced polyurethane polyurea formulated, rapid set, high strength, ultra low viscosity repair material. The product is a two part, 1:1 mix ratio by volume, 100% solids system. This means it is 100% solvent free and VOC free. The material has been designed to fix spalled concrete surfaces and cracks, and to rebuild damaged control joints effectively and quickly. Examples for typical repair applications are warehouse floor spalls and other traffic prone surfaces, where load damage from steel wheels, hard urethane wheels and other stress factors are common. SealBoss™ 6060 QuickFix is also a strong adhesive to bond damaged slabs. The product adheres very well to itself (wet on dry).

**Advantages:**
- Cures from -20° F to 130° F.
- Drive-over in 8 to 12 minutes, produces high strength quickly.
- Self-leveling and priming, fast initial set; rapid gain to ultimate strengths.
- Minimal odour.

**Range of application:**
- Rebuilding control joints, shallow spalls on bridge decks.
- Traffic area spalls and crack repairs, grade matching, floor repair.
- Fill and repair spall before coating.
- Filling voids under concrete and tile.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>37.8 litre kit</td>
<td>204-656</td>
</tr>
<tr>
<td>Grey</td>
<td>650 ml twin cartridge (1:1 ratio)</td>
<td>204-652</td>
</tr>
</tbody>
</table>

**SealBoss® 4050 SLV Epoxy Resin**

- SealBoss® 4050 SLV epoxy resin is a super low viscosity two component epoxy resin designed for deeper penetration and high strength.
- An excellent epoxy adhesive for use in crack injection or gravity feed, and as a general purpose adhesive for sealing concrete slab conditions and patching mortar and grout.
- SealBoss® 4050 SLV epoxy resin is designed for the injection of cracks and voids in concrete.
- Due to the super low viscosity of the material good penetration is achieved even at lower injection pressures.
- SealBoss® 4050 SLV epoxy resin has superior water displacing properties and bonds well in moist conditions.
- Due to the high tensile strength of the cured product, SealBoss® 4050 SLV epoxy resin is ideal for structural repair.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amber</td>
<td>1094 ml twin cartridge (2:1 ratio)</td>
<td>205-252</td>
</tr>
</tbody>
</table>
Concrete Repair

**CONCRETE REPAIR - EPOXY/POLYUREA**

**SealBoss® 6500 Universal Polyurea**

Technologically advanced multiple application polyurea. This polyurea is a self levelling, 100% solids, two component, 1:1 ratio, very flexible elastomer. SealBoss® 6500 is an excellent joint and crack filler for concrete in applications that are time critical. It works well in adverse temperature conditions as the material cures rapidly in ambient temperatures from -20°F to 130°F. The tack free time is 5 to 15 minutes.

SealBoss® 6500 QuickFix is a technologically advanced multiple application product. This polyurea is a self leveling, two component, 1:1 ratio.

**Advantages:**
- Return project to service in 60 to 90 minutes.
- Cures from -5°C to 50°C.
- Odourless.
- Resistant to petrochemicals.
- To fill cracks, damaged control joints, construction joints on horizontal concrete.
- For industrial floor applications which receive heavy vehicle traffic, such as fork lifts or steel wheeled carts.
- Highly flexible, allowing slab movement, yet strong enough to protect the vertical edges of concrete from spalling under extreme loading.

**Typical application environments:**
- Industrial facilities, warehouse floors, manufacturing facilities.
- Parking garage decks, airports.
- Water and waste water treatment, saw cuts, utility cuts.
- Bridge headers, freezers.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>37.8 litre kit</td>
<td>204-300</td>
</tr>
<tr>
<td>Grey</td>
<td>650 ml twin cartridge (1:1 ratio)</td>
<td>204-651</td>
</tr>
</tbody>
</table>
CONCRETE REPAIR - EPOXY/POLYUREA

**SealBoss® 6600 Vertical QuickFix**

A two component, rapid curing 1:1 ratio polyurea caulk designed for sealing vertical and horizontal joints. 6600 is used to fill interior control joints or new construction saw joints on vertical surfaces. SealBoss® 6600 can be used in exterior applications where some joint movement from thermal cycling will occur.

**Advantages:**
- 100% solids, meets VOC regulations.
- Remains flexible, even in cold temperatures.
- Available in custom colours.
- No toxic vapours.
- Resistant to petrochemicals.

**Typical application environments:**
- Industrial facilities.
- Warehouse floors.
- Manufacturing facilities.
- Pulp and paper mills.
- Bottling and canning facilities.
- Airports.
- Water and waste water treatment.
- Cold storage facilities.
- Food processing facilities
- Freezers.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>650 ml twin cartridge (1:1 ratio)</td>
<td>204-653</td>
</tr>
</tbody>
</table>
Concrete Repair

INJECTION SYSTEMS

Cetco Akwaseal® LV Polyurethane Chemical Grout

- A two part hydrophobic polyurethane chemical injection grout designed to stop water infiltration through concrete cracks, joints, fractures and improperly consolidated areas.
- Akwaseal® LV is injected as a liquid directly into a leaking crack, fracture, hole or joint.
- After injection, the grout reacts with water and forms into an expanding foam that fills the void.
- The cured foam adheres to the concrete within the crack to form an impermeable, elastomeric seal.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.9 litre</td>
<td>205-610</td>
</tr>
</tbody>
</table>

Cetco Akwaseal® LV Catalyst

- Accelerator/Catalyst for Akwaseal injection grout.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>480 ml</td>
<td>205-611</td>
</tr>
</tbody>
</table>

Cetco Bentogroup®

- A high-solids grout consisting of a proprietary blend of bentonite and polymers formulated for sealing water leaks in existing below-grade structures.
- Bentogroup® is pumped in a fluid state adjacent to the exterior of the structure where it sets to a solid material forming a waterproofing membrane around the structure.
- Bentogroup® can be used to seal leaks in concrete, masonry block, brick, and stone foundations.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 kg</td>
<td>205-612</td>
</tr>
</tbody>
</table>
INJECTION SYSTEMS

**SealBoss™ 1510 Water-Cut-Off Injection & Foam**

A two part hydrophobic water cut-off and soil stabilization grout based on MDI (methylene-diphenyl isocyanate) polyurethane. The resin is 100% solvent free and 100% solids. The gel-time of the product can be adjusted by altering the ratio of SealBoss™ 15X Accelerator. Upon contact with water SealBoss™ 1510 reacts to a foam while expanding its volume 30 to 40 times. The cured material is semi flexible and of a constant volume. Since water is not a component of the foam structure, the cured material is essentially not affected by water or dryness. The reacted material will not shrink or swell.

**Range of application:**
- Defective concrete (cracked or honeycombed), concrete joints and cracks.
- Limestone, brick construction, pipe intrusions, waste water tanks, reservoirs.
- Sewers, manholes, utility boxes, etc.
- Tunnels, dams, soil stabilization.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.8 litre (catalyst included)</td>
<td>205-152</td>
</tr>
<tr>
<td>18.9 litre (requires 15 x catalyst)</td>
<td>205-151</td>
</tr>
</tbody>
</table>

**SealBoss™ by Webac® 15X Catalyst**

- Accelerator/Catalyst for 1510/1570 injection grouts.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 litre can</td>
<td>205-150</td>
</tr>
</tbody>
</table>

**SealBoss® FlexGel 2**

- A single component hydrophilic polyurethane grout. The product is capable of incorporating large amounts of water that are multiples of its own mass, thereby forming a water proofing gel. When SealBoss® FlexGel 2 comes in contact with only small amounts of water (up to three times by volume) the material reacts to closed cell foam while expanding. The cured material is flexible. Since water is a component of the cured product structure, the material can be effected by wet and dry cycles. The reacted material may shrink and swell as a result of the surrounding moisture content.
- The capability of the cured product to swell and increase in volume due to water absorption is one of the important features that discriminate hydrophilic grouts from their hydrophobic counterparts.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 litre jerry</td>
<td>205-211</td>
</tr>
<tr>
<td>18.9 litre drum</td>
<td>205-210</td>
</tr>
</tbody>
</table>
**INJECTION SYSTEMS**

**SealBoss™ 1570 Water Stop Injection Foam Grout**

Very flexible 2 part hydrophobic water cut-off grout and soil stabilization grout based on MDI (methylene-diphenyl isocyanate) polyurethane. The resin is 100% solvent free and 100% solids. The gel-time of the product can be adjusted by altering the ratio of SealBoss™ 15X Accelerator. Upon contact with water SealBoss™ 1570 reacts to a very flexible foam while expanding its volume 30 to 40 times. The cured material is flexible in its elongation and compression properties, and is of a constant volume. Since water is not a component of the foam structure, the cured material is essentially not affected by water or dryness. The reacted material will not shrink or swell.

**Range of application:**
- Defective concrete (cracked or honeycombed).
- Concrete construction joints and cracks.
- Limestone, brick construction, pipe intrusions.
- Waste water tanks.
- Sewers, manholes, utility boxes, etc.
- Tunnels, dams.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.8 litre (catalyst included)</td>
<td>205-153</td>
</tr>
<tr>
<td>18.9 litre (requires 15 x catalyst)</td>
<td>205-157</td>
</tr>
</tbody>
</table>
INJECTION SYSTEMS

SealBoss® 2400 SealGel SLV

- A high-grade, polycrystalline, ultra low viscosity injection gel with excellent sealing qualities.
- The material is characterized by its high flexibility, strength and tolerance for movement.
- The gel can be adjusted for reaction times from approximately 15 seconds to several minutes at room temperature.
- At 68°F / 20°C and standard adjustment (5% of powder B in water, by weight). SealBoss® 2400 will flow freely for approximately 25 seconds after mixing and will be fully gelled after approximately an additional 50 seconds.
- This standard gel time allows for an excellent material distribution and an ideal spreading rate in most applications.
- To meet specific jobsite needs, the gel time can be adjusted by a wide range, by adding more or less of the component B powder to the water side of the batch.
- Higher ambient and product temperatures accelerate the reaction time, lower temperatures slow it down.
- SealBoss® 2400 reacts to form a waterproof, flexible, but solid gel with outstanding adhesion to dry and wet mineral surfaces.
- In a moisture-vapour saturated environment the material remains stable in volume. In the case of alternating dry and wet periods, the gel will shrink and swell reversibly.
- The cured gel is insoluble in water and hydrocarbons. Resistant to diluted acids and alkalis as well as to most salts frequent in concrete structures.
- SealBoss® 2400 has good resistance to alternating frost and thaw cycles.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.9 litre + 1 kg (3 component kit)</td>
<td>205-245</td>
</tr>
</tbody>
</table>
INJECTION SYSTEMS

SealBoss® 1403 LV Resin

- A low viscosity two component hydrophobic resin based on a MDI (methylene-diphenyl-isocyanate) polyurethane.
- The product is 100% solvent free and 100% solids, the gel-time of the product can be adjusted by adding a certain percentage of 1400 Catalyst.
- This high grade and constant volume polyurethane resin is an universal injection resin designed for application in damp and dry cracks.
- Unlike water activated materials 1403 LV Resin does not need any external moisture for the reaction.
- 1403 LV-Resin has an ultra low viscosity of 70 cps resulting in excellent penetration into the finest hairline cracks.
- Another advantage of this very flexible material is the adhesive strength to concrete which is typically higher than the tensile strength of the product when injected into the structure.
- The combination of great adhesion and flexibility of the material minimizes the risk of developing new cracks in the concrete.
- The cured resin is inert to wet and dry cycles, it does not shrink or swell.

Range of application:
- Sealing concrete cracks and joints.
- Brick construction.
- Waste water tanks.
- Sewers, manholes, utility boxes, etc.
- Tunnels.
- Dams.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 litre</td>
<td>205-710</td>
</tr>
<tr>
<td>39.74 litre (3 component kit)</td>
<td>205-246</td>
</tr>
</tbody>
</table>
INJECTION SYSTEMS

SealBoss® 1640 SlabLifter™ & Waterstop Foam

SealBoss® 1640 is a closed cell, two-component, non-shrink polyurethane foam with structural properties. This MDI (methylene-diphenyl-isocyanate) based product is 100% solvent free and 100% solids. The product starts to react when mixed and does not need moisture from external sources for the reaction.

- The cured foam offers limited structural strength combined with increases in volume and excellent bonding properties on dry surfaces and with limitations on wet surfaces.
- The product is not a replacement for typical epoxy injection but offers an alternative for filling larger spaces that demand limited structural strength.
- The compressive strength of the reacted product is typically much higher when filled with an inert mineral such as sand.
- SealBoss® 1640 is designed to fill voids in soil and stone, brick or concrete structures for the purpose of waterproofing as well as regaining certain structural strength.
- The excellent combination of hardness and flexibility qualifies SealBoss® 1640 for use in areas where structural strength and moderate flexibility are desired. SealBoss® 1640 is an excellent soil solidification foam which can be used to seal, lift, fill and densely soil next to and under structures such as roadways, driveways, runways, patios and other buildings by utilizing a deep grout injection process.
- Static mixer included.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>650 ml twin cartridge (static mixer included)</td>
<td>205-250</td>
</tr>
</tbody>
</table>

SealBoss® 1500 Water-Stop-Foam

- A low viscosity hydrophobic water activated (hydro active) water cut-off grout and foam seal grout based on a MDI (methylene-diphenylisocyanate) polyurethane.
- This product is a two component formulation to be mixed at a 1:1 ration by volume. The resin is 100% solvent free and 100% solids.
- Upon contact with water the mixed 1500 Water-Stop-Foam reacts to a semi flexible foam while expanding its volume 30 to 40 times. Since water is not a component of the foam structure, the cured material is essentially not effected by water or dryness.
- The reacted material does not shrink or swell.
- The advanced 1:1 formulation of the product results in a very dense, closed cell structure when injected under pressure. Very low counter pressure will result in a less rigid more expanded product.
- For best waterproofing results a closed cell structure is desired.
- 1500 Water-Stop-Foam is designed for cutting off water even at elevated hydrostatic pressures.
- Due to the very low viscosity of the material, 1500 Water-Stop-Foam offers superior penetration in hairline crack injection.
- The product is also suitable for the filling of larger spaces, cracks and honeycombing in stone or concrete structures.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>650 ml twin cartridge (static mixer included)</td>
<td>205-251</td>
</tr>
</tbody>
</table>
Concrete Repair

**EXPANSION & COLD JOINT REINFORCEMENT**

**Concrete Repair**

**EXPANSION & COLD JOINT REINFORCEMENT**

**Cetco® Volclay Waterstops**

Waterstop-RX is a flexible strip concrete construction joint waterstop that provides a permanent seal by expanding upon contact with water. Waterstop-RX is an active sodium bentonite based waterstop that is designed to replace conventional passive PVC dumbbell waterstops, thus eliminating the requirement of split-forming and product seam welding.

Waterstop-RX is manufactured in light weight, flexible coils that can be installed in both hot and cold weather. The product is adhered to concrete, steel, and PVC (pipes) with CETSEAL at, or exceeding the required minimum distance from the exterior concrete surface.

The key to Waterstop-RX is sodium bentonite. Sodium bentonite swells when in contact with water, forming an impermeable barrier. This swelling property allows Waterstop-RX to form a permanent pressure seal within the concrete joint, thus eliminating water migration over or along the waterstop (see Figure 1.1). In addition to forming a positive pressure seal, the product’s expansion properties allow it to seal small cracks and void areas. Waterstop-RX has been successfully tested by independent testing firms to over 200 feet (60 meters) of hydrostatic water pressure, under both continuous emersion and wet/dry cycling. Waterstop-RX is extruded in three sizes and shapes.

In poorly consolidated concrete, Waterstop-RX can expand to fill voids, stopping water ingress through the concrete joint.

When hydrated, Waterstop-RX can expand up to three times its size in an unconfined area but is limited to controlled expansion in a concrete joint where it is confined.

Unlike PVC waterstops, Waterstop-RX can easily be installed around irregular structural elements.
## EXPANSION & COLD JOINT REINFORCEMENT

### Cetco Waterstop RX® 101
- Designed for vertical or horizontal concrete 205mm or thicker.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waterstop RX® 101</td>
<td>20mm x 25mm x 5.06 metre</td>
<td>711-320</td>
</tr>
</tbody>
</table>

### Cetco Waterstop RX® 101T
- Reinforced trapezoidal shape designed for shotcrete, extreme hot weather and difficult applications.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waterstop RX® 101T</td>
<td>13mm x 32mm x 6.08 metre</td>
<td>711-321</td>
</tr>
</tbody>
</table>

### Cetco Waterstop RX® 102
- Designed for vertical and horizontal concrete 127mm - 205mm thick.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waterstop RX® 102</td>
<td>10mm x 20mm x 10.16 metre</td>
<td>711-322</td>
</tr>
</tbody>
</table>

### Cetco Cetseal
- Cetseal is a multi-purpose, single component polyether moisture cure sealant/adhesive.
- Cetseal is a low VOC, 100% solids, non-shrinking product with excellent UV resistance.
- The primary applications are as a grade termination sealant, membrane lap sealant and as an adhesive for Cetco RX range of waterstops.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cetco Cetseal</td>
<td>300 ml cartridge</td>
<td>712-426</td>
</tr>
<tr>
<td>Cetco Cetseal</td>
<td>600 ml sausage</td>
<td>712-427</td>
</tr>
</tbody>
</table>
Concrete Repair

**EXPANSION & COLD JOINT REINFORCEMENT**

**Krystal Hyperstop DB-2519**

- Hyperstop DB is a high performance hydrophilic butyl bentonite waterstop, which swells to form a long-lasting water-tight compression seal.
- The swelling action is the result between water and hydrophilic groups which are part of the Hyperstop molecular structure.
- Hyperstop DB is suitable for static construction joints, penetrations or non-movement sections where there is any concern regarding water penetration.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB-2519</td>
<td>25mm x 19mm x 5 metre roll</td>
<td>711-400</td>
</tr>
</tbody>
</table>

**Krystal Hyperseal BR-2510N**

- Hyperseal BR is a high performance hydrophilic butyl rubber waterstop, which swells to form a long-lasting water-tight compression seal.
- The swelling action is the result between water and hydrophilic groups which are part of the Hyperseal BR molecular structure.
- Hyperseal BR is suitable for static or low movement construction joints, cold-joints and penetrations where there is any concern regarding water penetration.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>BR-2510N</td>
<td>25mm x 10mm x 5 metre roll</td>
<td>711-401</td>
</tr>
</tbody>
</table>

**Krystal Hyperseal DP**

- Hyperseal DP is a chemically modified natural rubber, merged with a hydrophilic agent that swells to form a long-lasting water-tight compression seal.
- Hyperseal DP is suitable for all static construction joints, penetrations or low movement sections where there is any concern regarding water penetration.
- Salt Water Grade (SWG) also available.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP2005</td>
<td>20mm x 5mm x 15 metre roll</td>
<td>711-402</td>
</tr>
<tr>
<td>DP2010</td>
<td>20mm x 10mm x 10 metre roll</td>
<td>711-403</td>
</tr>
<tr>
<td>DP3030N - Red</td>
<td>30mm x 30mm x 5 metre roll</td>
<td>711-399</td>
</tr>
</tbody>
</table>
### EXPANSION & COLD JOINT REINFORCEMENT

#### Krystal Hyperseal DP SWG (Salt Water Grade)

- Hyperseal DP is a chemically modified natural rubber, merged with a hydrophilic agent that swells to form a long-lasting water-tight compression seal.
- It is suitable for all static construction joints, penetrations or low movement sections where there is any concern regarding water penetration.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP2010H</td>
<td>20mm x 10mm x 10 metre roll</td>
<td>711-404</td>
</tr>
<tr>
<td>DP3030NH - Blue</td>
<td>30mm x 30mm x 10 metre roll</td>
<td>711-413</td>
</tr>
</tbody>
</table>

#### Hyperseal DP-3030N

- Hyperseal DP-3030N is a hydrophilic rubber waterstop with an embedded stainless steel wire mesh.
- It has high tensile and compressive strength.
- Hyperseal DP-3030N prevents water flowing by compression from the rubber’s natural resilience and moisture-induced expansion.
- DP-3030N will fill any void within the limits of expansion capability.
- Hyperseal DP-3030N is designed to be used in expansion joints.
- It is an excellent waterstop for use on shear movement joints.
- Slat water grade also available (DP3030NH).

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP3030N - Red</td>
<td>30mm x 30mm x 5 metre roll</td>
<td>711-399</td>
</tr>
</tbody>
</table>

#### Krystal Hyperseal D-Series

- Hyperseal D is a polyvinyl chloride (PVC) waterstop system which provides a physical barrier to seal in-situ concrete joints.
- All three Hyperseal D profiles work by increasing the displacement water needs to travel through the joint.
- The contour of each profile also ensures the waterstop is secure against structural movement and induces tensions across the whole waterstop section.

**Profiles:**
- D150 – Centrally placed waterstop for construction joints.
- D200 – Centrally placed waterstop construction or expansion joints.
- D230 – Externally placed waterstop for construction or expansion joints

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-150</td>
<td>5mm x 150mm x 20 metre roll</td>
<td>711-405</td>
</tr>
<tr>
<td>D-200</td>
<td>7mm x 200mm x 15 metre roll</td>
<td>711-406</td>
</tr>
<tr>
<td>D-230</td>
<td>5mm x 230mm x 15 metre roll</td>
<td>711-407</td>
</tr>
</tbody>
</table>
Concrete Repair

EXPANSION & COLD JOINT REINFORCEMENT

Krystol D-Series Accessories

- A range of accessories for D-series waterstops including straight joiners, vertical corner pieces, etc.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Joiner SJ-150</td>
<td></td>
<td>711-409</td>
</tr>
<tr>
<td>Straight Joiner SJ-200</td>
<td></td>
<td>711-410</td>
</tr>
<tr>
<td>Straight Joiner SJ-230</td>
<td></td>
<td>711-411</td>
</tr>
<tr>
<td>Straight Joiner Vertical corner pieces</td>
<td></td>
<td>711-412</td>
</tr>
</tbody>
</table>

Mapei® Idrostop

- Hydrophilic expandable rubber section for watertight construction joints.
- A soft preformed flexible strip, with an acrylic polymer base specially designed to form watertight construction joints up to a hydraulic pressure of 5 atm.
- Idrostop does not contain bentonite.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapei® Idrostop - Blue</td>
<td>10mm x 20mm x 10 metre</td>
<td>712-310</td>
</tr>
<tr>
<td>Mapei® Idrostop - Blue</td>
<td>15mm x 20mm x 7 metre</td>
<td>750-307</td>
</tr>
</tbody>
</table>

Mapei® Idrostop Mastic

- Idrostop Mastic is a ready to use single component solvent free MS polymer based adhesive. After extrusion the mastic becomes a thixotropic paste easily applied vertically and horizontally.
- It reticulates with moisture to form a flexible product at temperatures between +10°C and +40°C.
- Use for fitting Idrostop during the creation of waterproof working joints in civil, industrial, and hydraulic constructions.
- Bonding Idrostop on concrete at cold joints between concrete beds and elevation walls.
- Bonding Idrostop around PVC pipes or steel before pouring concrete.
- Idrostop Mastic is adheres perfectly on slightly moist surfaces as long as they are perfectly clean and solid.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td>290mm cartridge</td>
<td>711-555</td>
</tr>
</tbody>
</table>
WATERSTOPS

**Cetco Akwaswell Cartridge**

- A caulk grade, single component swelling paste used to stop water infiltration through concrete construction joints.
- It is a specially formulated polyurethane-based material with a hydrophilic agent dispersed evenly throughout the paste.
- Akwaswell is installed with a standard caulk gun and self adheres to dry concrete surfaces; no mechanical fastening or adhesives required.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cetco Akwaswell</td>
<td>310 ml</td>
<td>711-523</td>
</tr>
</tbody>
</table>

**Cetco Cetplug**

- A quick setting hydraulic cement based patching material designed to stop active seepage through concrete and masonry.
- Cetplug will not shrink, rust or spall under moist or humid conditions.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cetco Cetplug</td>
<td>25 kg</td>
<td>203-591</td>
</tr>
</tbody>
</table>

**Krystol Hyperseal DPS-200**

- A grey, elastic water-swellable paste which is applied like a sealant.
- The hydrophilic properties of Hyperseal DPS-200 display good consistency in swell rate during repeated wet/dry cycling.
- Expansion of the product on contact with water creates a pressure seal against each side of the joint, thus preventing the passage of water.
- Use Hyperseal DPS-200 as an adhesive for installing Hyperseal DP strips or as a problem-solving hydrophilic waterstop in difficult access areas.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Krystol Hyperseal DPS-200</td>
<td>320 ml cartridge</td>
<td>711-408</td>
</tr>
</tbody>
</table>
**Concrete Repair**

**WATERSTOPS**

**Krystol Plug**

A fast setting powder that, when mixed to a stiff-dough consistency with water, may be used to immediately arrest the seepage or flow of water through concrete voids. It is used to stop flowing water, allowing waterproofing repairs to be installed in leaking cracks, holes, joints or any place where water is penetrating a concrete structure.

- Stops flowing water immediately, sets fast, in one to two minutes.
- Easy to mix and apply, will set up and harden under water.
- Has exceptional strength, does not contain any chlorides.
- Safe for drinking water applications.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Krystol Plug</td>
<td>5 kg</td>
<td>203-592</td>
</tr>
<tr>
<td>Krystol Plug</td>
<td>25 kg</td>
<td>420-402</td>
</tr>
</tbody>
</table>

**Mapei® Lamposilex Waterstop**

- Ultra-fast setting and curing hydraulic binder for stopping waterleaks.
- Mixed with water, Lamposilex produces a paste with a plastic-thixotropic consistency easy to apply even on vertical surfaces, with no need for formwork.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>5 kg</td>
<td>203-590</td>
</tr>
</tbody>
</table>

**BITUMEN COLDMIX REPAIR**

**Resistoseal Asphalt Repair**

Resistoseal Asphalt Repair Mix is composed of a ready to use mixture of adherent aggregates.

- It forms a solid bond with all firm surfaces, wet or dry.
- Can be applied at any temperature onto asphalt surfaces, either for residential or commercial purpose.
- A 20 kg bag covers around 5.7 sq. ft (0.53 m²) for a depth of 1 in. (25mm).

<table>
<thead>
<tr>
<th>Colour</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>20 kg bag</td>
<td>209-002</td>
</tr>
</tbody>
</table>