

# WATERPROOFING, CONCRETE PROTECTION & REPAIR

[Waterstops & Membranes](#)

[Cementitious Coatings & Repair Products](#)

[Joint Sealants & Fillers](#)

[Grouts](#)

[Gas Barriers](#)

[Ancillaries](#)

# WATERPROOFING, CONCRETE PROTECTION & REPAIR

RFA-TECH supplies an extensive range of engineered products and systems for waterproofing solutions below and above ground levels. We have a dedicated team of experienced personnel offering sales and technical support to assist in all types of projects; from lift pits and basements through to water treatment works and underground car parks. Whatever the project, RFA-TECH will have a solution to your waterproofing needs.

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## Application Methods



Brush Application



Roller Application



Pour Application



Spray Application



Hammer Application



Gun Application



Trowel Application

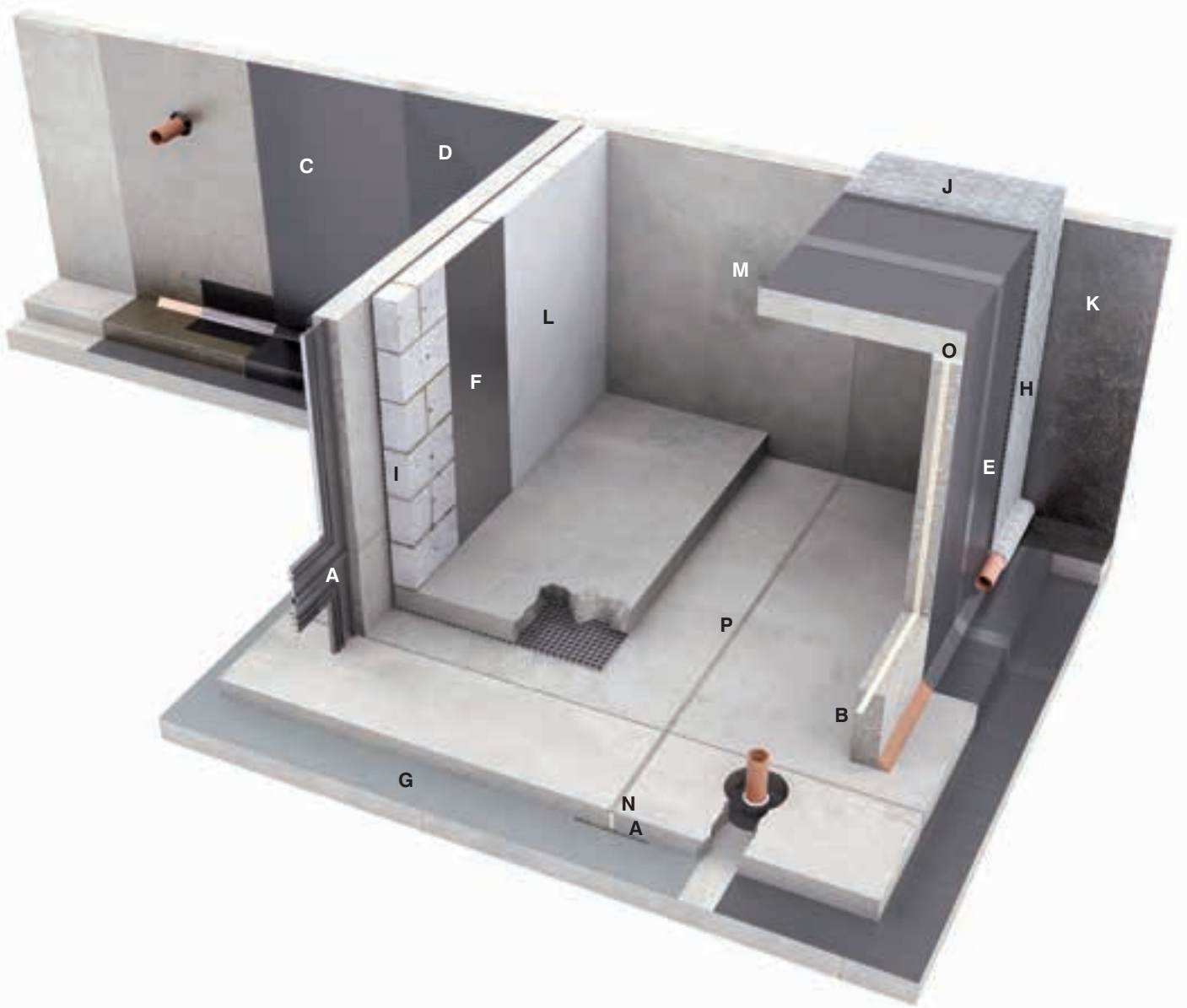


Hand Application



Pump Application

An example of waterproofing scenarios for demonstration only.



Our Partners:



Email: [sales@rfa-tech.co.uk](mailto:sales@rfa-tech.co.uk) [www.rfa-tech.co.uk](http://www.rfa-tech.co.uk)

# PVC WATERSTOPS



## Uses

PVC Waterstops are designed to provide an integral sealing system for movement and construction joints in concrete cast in-situ. These joints typically occur in the following type of structure:

- Reservoirs, water towers and sewage tanks
- Dams, culverts, canals and spillways
- Swimming pools
- Bunded areas surrounding liquid retaining tanks
- Basements and underground car parks
- Tunnels and subways
- Abutments and retaining walls
- Roof decks and podium decks

## Description

PVC Waterstops are extruded from a high grade PVC compound which has been formulated to give excellent flexibility and longevity characteristics. They are available in straight lengths and factory produced intersections or as a factory prefabricated segment of a network to minimise site jointing.

## Internal PVC Waterstops

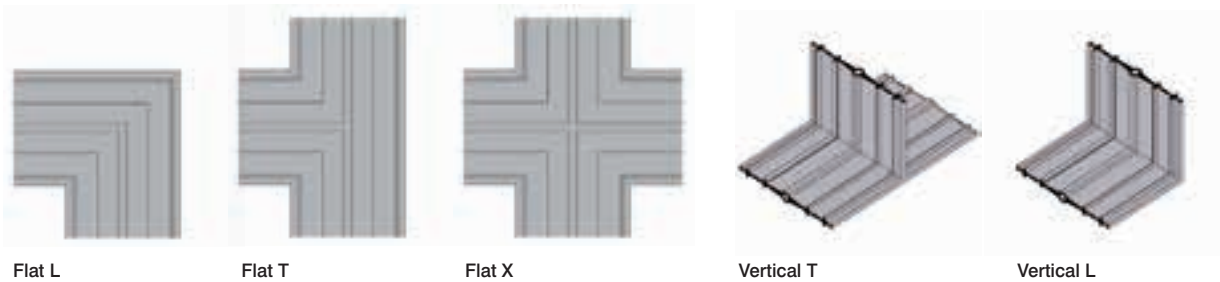
Internal PVC Waterstops are specifically developed with their unique rib and bulb profiles, to provide a totally effective water barrier when cast centrally within wall and floor joints. Waterstops have been tested to withstand ingress of water in construction and expansion joints in water retaining and excluding structures. All internal Waterstops incorporate an eyeleted reinforced edge flange; this enables them to be easily positioned by wiring to surrounding reinforcement.

## External PVC Waterstops

External PVC Waterstops are high performance profiles, specifically developed to seal joints in concrete structures at the outside surface, thus preventing the reinforcing steel against corrosion attack, in addition to providing a totally watertight seal. External Waterstops have been independently tested to withstand ingress of water in construction, expansion and kicker joints in water retaining and excluding structures. All External sections incorporate a nailing flange with a reinforced edge to provide a secure fixing that will resist tearing.

### PVC Waterstop Intersections

A complete range of factory welded intersection pieces are available for all PVC Waterstop profiles.



### PVC Waterstop Jointing Jig & Hot Knife

To assist the onsite jointing of all of our PVC Waterstops, electric hot knives are available along with jointing jigs. These are to provide high quality joints, ensuring a watertight continuation of the PVC Waterstop network being installed.



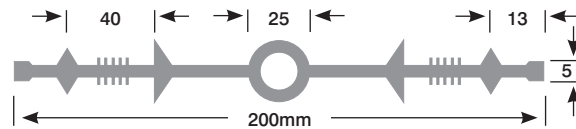
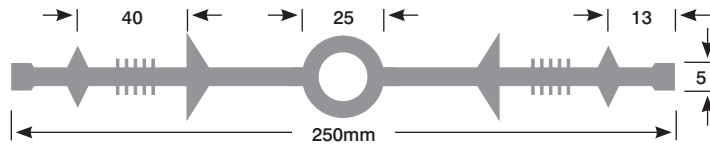
Jointing Jig	Quantity: 1
Hot Knife	Quantity: 1

## Systems Available

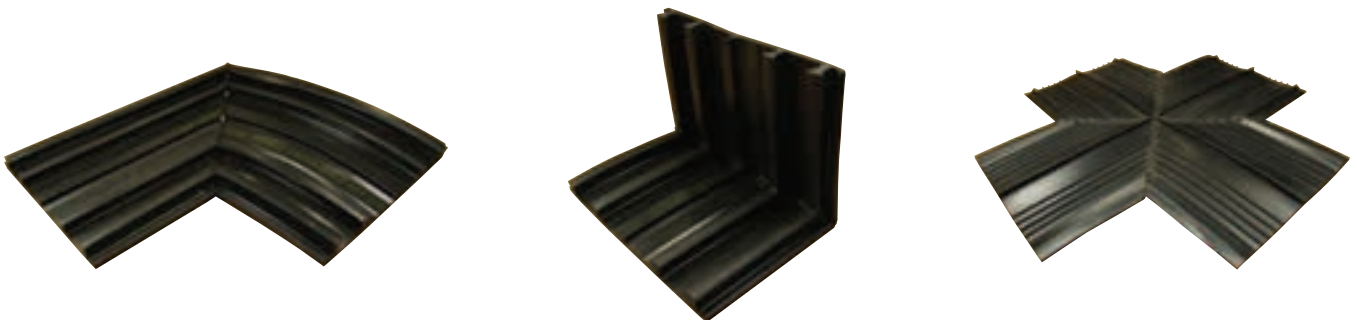
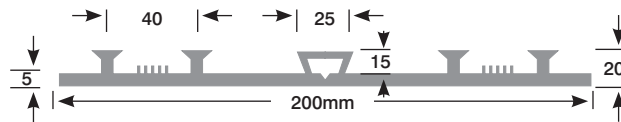
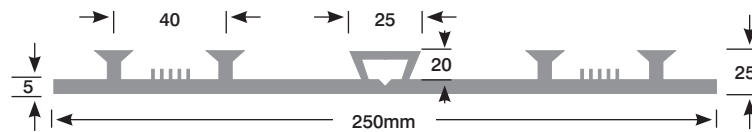


Internal Centrebulb	<b>Sizes:</b> 200mm x 15m 250mm x 12m	External Extaseal	<b>Sizes:</b> 200mm x 15m 250mm x 12m
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Internal Profiles

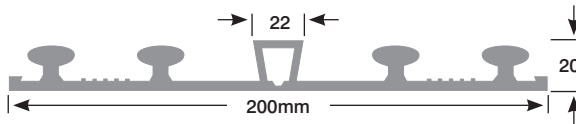
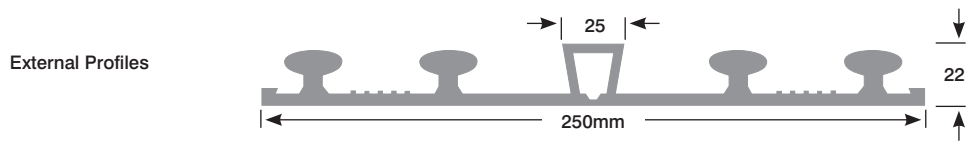
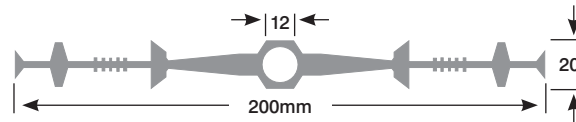
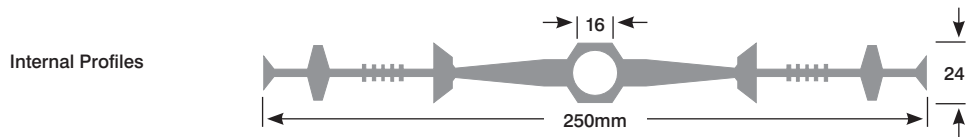


External Profiles



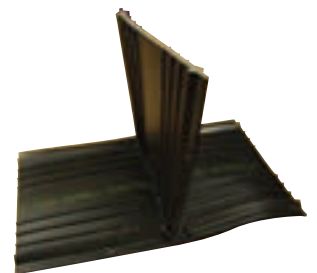
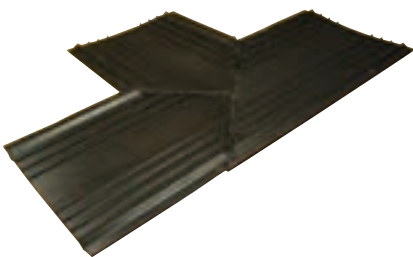


Supercast Hydrofoil (Internal)	Sizes:	150mm x 12m	Supercast Rearguard S (External)	Sizes:	200mm x 12m
		200mm x 15m			250mm x 12m
		250mm x 15m			



Technical advisory services are available on the use and application of all PVC Waterstops, also providing design services to produce factory welded box, circular and 'L' sections saving time and labour on site.

**Technical Data Sheets, Material Safety Data Sheets, Installation Guides and Advice are available on request.**



# SELF-SWELLING WATERSTOPS



Hammer Application



Gun Application

RFA-TECH offers a wide range of self swelling waterstops which are designed to prevent the passage of water through concrete construction joints, precast elements and pipe penetrations.



## Dual Seal Bentonite Waterstop



Dual Seal Waterstop is a Bentonite based waterstop which reacts in contact with water by swelling to form a watertight seal in concrete structures. Dual Seal Waterstop has been independently tested up to 30 metre head of water. It has full WRAS approval for use with potable water.

Dual Seal Waterstop has been specifically designed to seal construction joints against the ingress or outgress of liquids in water retaining or excluding structures. Dual Seal Waterstop is fixed by nailing to the face of the existing pour prior to placing the next pour. It is installed directly onto scabbled surfaces and will swell into voids up to 12mm deep. Changes of direction and end joints are simply achieved by butting together, no welding or adhesives are required.



Dual Seal Waterstop can be applied to green concrete and in damp conditions.

Dual Seal Bentonite Waterstop	Size: 7mm x 25mm x 8m roll
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## Hydrotite CJ0725



Hydrotite is the original expanding rubber seal used in a variety of applications for sealing joints against water penetration. Hydrotite is a hydrophilic waterstop which exhibits excellent durability and water sealing capacity. It expands as it absorbs water and fills up concrete joint gaps conforming to the gap variation, ensuring excellent sealing.

Hydrotite CJ0725	Size: 7mm x 25mm x 10m roll
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### Bentorub



Bentorub is a green flexible hydrophilic bentonite strip for the sealing of construction joints in concrete. It is made from natural bentonite clay and synthetic rubber. Bentorub is designed for sealing construction joints, cold joints and working joints in concrete, around pipe penetrations, in sewer joints, against slurry walls and sheet piling etc.



Bentorub has a proven track record in water tanks, metro-works, water purification plants, underground parking lots, water reservoirs, swimming pools, water treatment plants and other concrete structures subject to high water pressure up to 8 bar. The strip can be easily installed by nailing 4 to 5 nails per metre or gluing with Swellseal Mastic.

<b>Bentorub</b>	<b>Size:</b> 20mm x 25mm x 5m roll
<b>Bentosteel Fixing Cage</b>	<b>Size:</b> 30 Pieces x 1m

### Swellseal Joint



Swellseal Joint is a co-extruded, vulcanized hydrophilic rubber strip used primarily for sealing joints in pre-cast elements. Swellseal can also be used for sealing construction joints, pipe penetrations and joints in underground pre-cast elements and structures. The rigid finish ensures a good adhesion to concrete and can be easily installed nailing 4 to 5 nails per metre or gluing using Swellseal Mastic.

<b>Swellseal Joint</b>	<b>Size:</b> 7mm x 25mm x 10m roll
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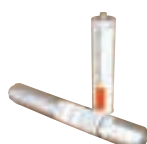
### Swellseal 3V



Swellseal 3V is a tough, hydrophilic waterproofing strip made from a combination of an elastomer and a hydrophilic resin. Swellseal 3V can be used for sealing joints between concrete precast elements, horizontal and vertical construction joints, sealing pipe penetrations, sealing concrete to steel joints and tunnel segments. Swellseal 3V requires a minimum of 100mm concrete cover on all sides.

<b>Swellseal 3V</b>	<b>Size:</b> 20mm x 5mm. 15m roll
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### Swellseal Mastic



Swellseal Mastic is a one-component, polyurethane based, solvent free, hydro swelling mastic. It is used for the sealing of construction joints and around pipe penetrations. It can also be used as an adhesive to secure other waterstops. Swellseal Mastic is a flexible system that can be applied to rough or smooth joints in concrete, PVC, HDPE, steel etc and will expand up to 350% its original volume when in contact with water.

<b>Swellseal Mastic</b>	<b>Size:</b> 310ml cartridge
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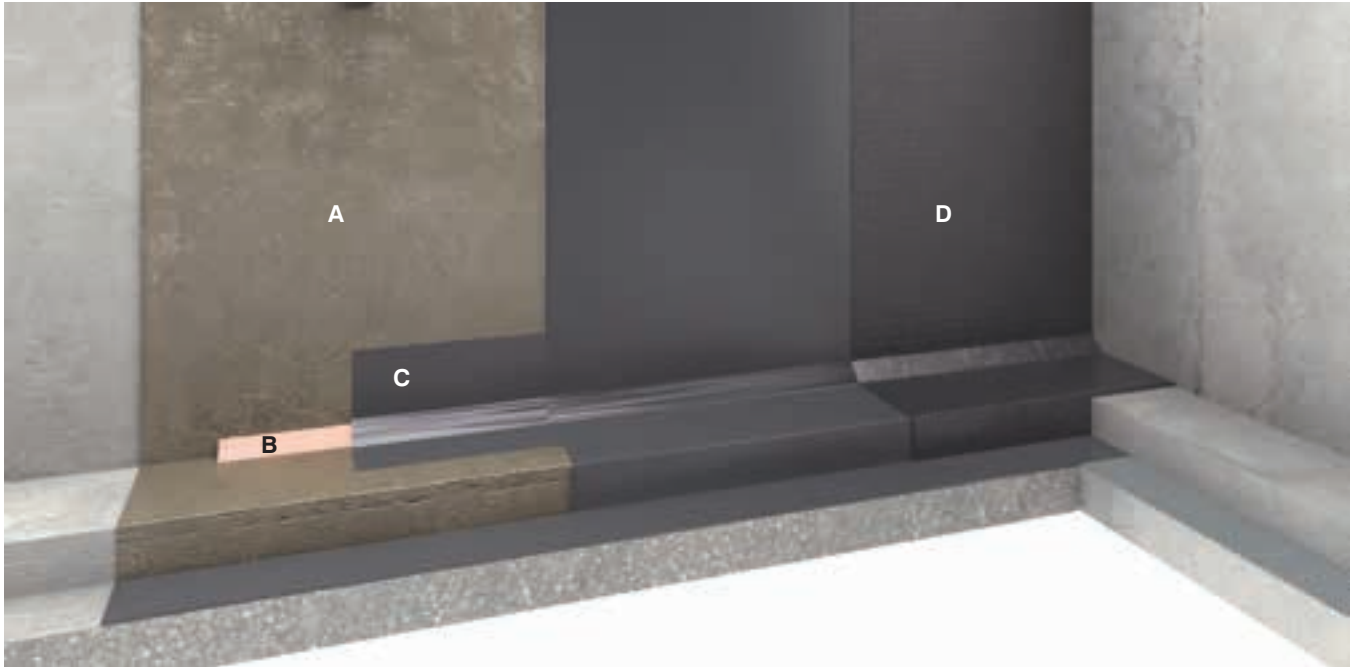
The **Supercast SW** range are sections made from high performance synthetic elastomer strips. The SW range is designed to prevent the passage of water through non-movement joints in both new and in-situ concrete and between new and existing concrete. Supercast SW increases in volume up to 300% and gives resistance to hydraulic pressure.



Both Supercast SW10 and SW20 have a delayed swell action which helps prevent pre-swell during wet site conditions. The SW waterstops are adhered into place using either Supercast SW Adhesive or Supercast SWX which is a swellable gun applied paste.

<b>Supercast SW10</b>	<b>Size:</b> 5mm x 20mm x 15m
<b>Supercast SW20</b>	<b>Size:</b> 10mm x 20mm x 15m
<b>Supercast SWX</b>	<b>Size:</b> 310ml cartridge

# SELF ADHESIVE WATERPROOFING MEMBRANES



## Membrane Ancillaries

### Use

Self Adhesive Waterproofing Membranes are designed to provide a continuous, self-bonding, waterproof system for below ground structures, subways and retaining walls, preventing the passage of vapour and water.

### Description

Self Adhesive Waterproofing Membranes consist of a self-bonding, polymer modified bitumen, which is covered on one side by a tough multi-ply, cross laminated polythene film and protected on the other side by a release sheet which is removed prior to the bonding of the material, on to a suitably prepared substrate. Once the release sheet has been removed, the membrane can be easily applied by roller pressure.

### Membrane Primer (A)

One Part Bitumen Solutions used for sealing porous concrete surfaces to promote the adhesion of self-adhesive waterproofing membranes.

### 45° Angle Fillet (B)

Fillets are used at floor and wall junctions to help the installation and support of membranes.

### Angle Reinforcing (C)

Detail strips or tapes are used to reinforce the protection of angles between the floor and wall junction.

### Membrane Protection Boards (D)

Protection Boards are designed for use in both horizontal and vertical applications to protect self adhesive waterproofing membranes against abrasive backfill, poured concrete and foot traffic.

### Double-Sided Tapes

Double Sided Bitumen Tapes are used to bond membrane protection board to the membrane.

### Liquid/Mastic Detailing Compounds

Liquid detailing compounds are used to terminate self adhesive membranes, seal pipe penetrations, reinforce floor to wall junctions or alternatively formed to provide an angle fillet.

## Systems Available



Bitusheet XL Waterproofing Membrane	<b>Size:</b> 1.05m x 19.05m roll (20m <sup>2</sup> )
Bitusheet Standard Primer	<b>Size:</b> 5ltr can or 25ltr drum. Coverage: 5-7m <sup>2</sup> /ltr
Bitusheet HP Primer	<b>Size:</b> 5ltr can or 25ltr drum. Coverage: 5-7m <sup>2</sup> /ltr
Bituthene LM	<b>Size:</b> 5.7ltr pack
Foam Angle Fillet	<b>Size:</b> 40mm x 40mm x 1m length
Bitusheet Reinforcing Strip	<b>Size:</b> 300mm x 20m roll
3mm Bitusheet Protection Board	<b>Size:</b> 3mm x 1m x 2m
6mm Bitusheet Protection Board	<b>Size:</b> 6mm x 1m x 2m
Double Sided Bitumen Tape	<b>Size:</b> 50mm x 15m roll



Proofex 3000 Waterproofing Membrane	<b>Size:</b> 1m x 20m roll (20m <sup>2</sup> )
Proofex Primer	<b>Size:</b> 5ltr can or 25ltr drum. Coverage: 5-7m <sup>2</sup> /ltr
Proofex Engage Detail Strip	<b>Size:</b> 200mm x 10m roll
Proofex Protection Board	<b>Sizes:</b> 2mm x 1m x 2m 3mm x 1m x 2m
Proofex LM	<b>Size:</b> 28kg pack



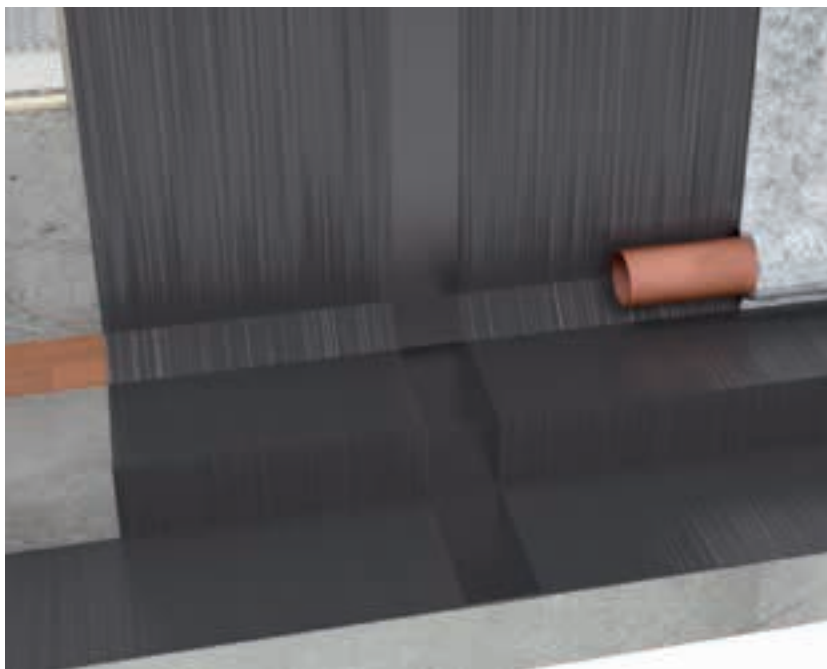
Bituthene 3000	<b>Size:</b> 1m x 20m roll (20m <sup>2</sup> )
Bituthene 4000	<b>Size:</b> 1m x 20m roll (20m <sup>2</sup> )
Bituthene 4000DW	<b>Size:</b> 1m x 20m roll (20m <sup>2</sup> )
Bituthene 8000	<b>Size:</b> 1m x 20m roll (20m <sup>2</sup> )
B1 Primer	<b>Size:</b> 5ltr can or 25ltr drum. Coverage: 5-7m <sup>2</sup> /ltr
Bituthene GP	<b>Size:</b> 25m x 1m roll
Bituthene LM Detailing Compound	<b>Sizes:</b> 5.7ltr pack
Bituthene Protection Board	<b>Sizes:</b> 3mm x 0.9m x 2.03m
Bitustik 4000 Double Sided Tape	<b>Size:</b> 150mm x 12m



Sheetseal 226 Waterproofing Membrane	<b>Size:</b> 1.05m x 19.05m roll (20m <sup>2</sup> )
Sheetseal Primer	<b>Size:</b> 5ltr can or 25ltr drum. Coverage: 5-7m <sup>2</sup> /ltr
Sheetseal Reinforcing Strip	<b>Size:</b> 300mm x 20m roll
RIW Protection Board	<b>Sizes:</b> 3mm x 0.9m x 2.02m

Technical Data Sheets, Material Safety Data Sheets, Installation Guides and Advice are available on request.

# BENTONITE WATERPROOFING MEMBRANE



## Benefits

- Provides a totally watertight barrier which is 10 times greater than concrete
- Resistance to hydrostatic head of water of 46m
- Can be applied immediately shutters are struck to wet surface or green concrete
- Can be installed in damp conditions
- Prevents tracking of water between membrane and concrete surfaces
- Surface does not require priming
- Installation temperature -30°C to +50°C
- Easily installed by non-skilled operatives
- Non-toxic
- Eliminates need for separate protection board
- Does not require welding
- In excess of 5,000,000m<sup>2</sup> successfully installed worldwide
- U.K. Water Fitting Byelaws Scheme Listed for use with potable water



## Dual Seal HDPE / Bentonite Self Healing Waterproofing Membrane

### Use

Dual Seal waterproofing membrane has been specifically developed for use as a high performance waterproofing membrane to provide a totally watertight barrier in below ground concrete construction, including basements, underground car parks, plant rooms, access tunnels etc.

Dual Seal Membrane can be installed in damp conditions and is therefore, particularly suitable for use as a roof waterproofing system for earth covered potable water reservoirs. A Lagging Grade is available for reverse tanking situations and a Salt Water grade where salt or brackish water is present.

### Description

Dual Seal is a high performance self swelling, self healing waterproofing membrane comprising of a thick, tough, high density polyethylene sheet laminated with 4kg/m<sup>2</sup> of quality Bentonite granules. The Bentonite used in the manufacture of Dual Seal is capable of repeated cycles of wetting and drying without deterioration of its sealing properties and has a life expectancy measured in thousands of years (BBA Certified). It has WRAS approval for use with potable water. Conforms to the DWI Water Quality Regulation 25 (1) c 1989.

### Technical Data

Physical Properties	Value	Test Method
Tensile Strength: Membrane N/mm <sup>2</sup>	27.50 N/mm <sup>2</sup>	ASTM D412
% Elongation at Break	700%	D638 Type
Puncture Resistance	43kg	FTMS 101B
Resistance to Hydrostatic Head (Metre of Water)	46m	ASJM D751 method a
Resistance to micro organisms (bacteria, fungi, mould, yeast)	Unaffected	
U.K. Water Fittings Byelaws Scheme listed for use with potable water		

### Sizes

HDPE Thickness	0.5mm
Total Membrane Thickness	5mm
Roll Width	1.22m
Roll Length	7.32m
Coverage per roll (allowing 50mm overlaps)	8.59m <sup>2</sup>



## Dual Seal Ancillaries



### Overlap Tape



Overlap Tape comprises of a cross laminated high polyethylene sheet, coated with a Bitumen Polymer Adhesive, faced with a release sheet used to seal over-lap joints of Dual Seal Membrane. Use 1 roll per 2 rolls of Dual Seal Membrane.

Overlap Tape	Size: 100mm x 20m roll
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### Dual Seal Mastic



A trowable mastic, comprising of a special formulation of expandable minerals and an elastomeric compound, which expands and stiffens when in the presence of water. Dual Seal Mastic is used to bed-in angle fillets, the sealing of pipe penetrations, filling voids, tie holes and honeycombing prior to installation of Dual Seal.

Dual Seal Mastic	Size: 19ltr
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### Dual Seal Granules



A high swelling sodium bentonite in granular form which reacts in contact with water to form an impervious gel. The granules are used to form an angle fillet and the sealing of voids and pipe entries.

Dual Seal Granules	Size: 22.7kg bag (23.6ltr)
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### Dual Seal Steel Termination / Fixing Strip



Used to hold the vertical hanging Dual Seal Membrane against the wall. It is used to ensure the membrane is retained flat against the vertical wall surface. In the situation where Dual Seal LG is used, the termination strip is installed on top of the overlap to hold the lap in place and to prevent any debris or concrete pour getting between the Dual Seal Membrane and thus preventing a seal.

Dual Seal Steel Termination/Fixing Strip	Size: 3m lengths
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### Dual Seal Bentonite Waterstop



Dual Seal Waterstop is a bentonite based waterstop which reacts and swells in contact with water to form a watertight seal in concrete construction joints and pipe penetrations.

Dual Seal Waterstop	Size: 7mm x 25mm x 8m roll
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### Superstop



Superstop is an elastic swelling strip based on pure sodium-Bentonite. When it comes into contact with water, this unique natural clay material absorbs water molecules and increases in volume. Tiny flakes of Bentonite disperse and penetrate cracks and cavities. Once in place, the material presses against the concrete and effectively prevents water from getting through. The seal improves as hydrostatic pressure increases.

Superstop Waterstop	Sizes: 25mm x 30mm x 6m roll 25mm x 19mm x 3.9m roll
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### 300 $\mu$ Virgin Blinding Sheet

Installed on top of all blinding except wood float finished concrete. Overlaps should be 200mm and taped using 100mm wide Overlap Tape. Dual Seal Membrane is installed with the Bentonite Granules (Grey) facing the blinding sheet with Black HDPE side up facing the installer.

300 $\mu$ Virgin Blinding Sheet	Size: 4m x 25m roll
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### Dual Seal Preformed Top Hats & Corners

We recommend the use of these units as they save much time on site and help to ensure the integrity of the system at the most vulnerable locations. Standard 90° corners and top hats with standard pipe dimensions are usually available off the shelf.

Dual Seal Preformed Top Hats & Corners	Quantity: Please enquire
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### Foam Angle Fillet



Fillets are used at floor and wall junctions to help the installation and support of membranes.

Foam Angle Fillet	Size: 3m lengths
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### Wall Drain 12 mm Thick

Please turn to page 16 for the full details of our Drainage Membranes.

Wall Drain 12 mm Thick	Size: 50m rolls x 1m wide
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### Powder Actuated Tool

Used for fixing of Dual Seal Membrane.

Powder Actuated Tool	Quantity: 1
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### Soft Washer Fixings



Used for fixing of Dual Seal Membrane with powder actuated tool.

Soft Washer Fixings	Quantity: 150
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Technical Data Sheets, Material Safety Data Sheets, Installation Guides and Advice are available on request.

# GAS BARRIER MEMBRANES



## Protech Super - Methane & Radon Gas Barrier Membrane

Protech Super is a high performance, reinforced, polyethylene gas resistant membrane, with a 12 micron aluminium foil core that protects structures from the ingress of Methane (CH<sub>4</sub>), Carbon Dioxide (CO<sub>2</sub>) and Radon (Ra).

Physical Properties	Value	Test Method
Tensile Strength	10.5 kN/m	BS4415 Part 2
Nail Tear Resistance	160N	MOAT:5.4.1
Moisture/Vapour Transmission Rate	<0.01g/m <sup>2</sup> /24h	BS 3177
Methane Permeability	<0.001	

Typical Properties	Value
Roll Length	50m or 25m
Width	2m
Weight	0.37kg/m <sup>2</sup>
Thickness	0.4mm
Colour	Green / Silver

## Application

Protech Super can either be tape jointed using a 30mm double sided, cross linked butyl tape, or alternatively can be welded using a hand held or automatic hot air gun. Pre-fabricated welded panels complete with air channel, can be supplied to individual plot sizes on request.



### Bituthene 8000

Advanced, self-adhesive water and vapour proof membrane for sub-structures.

#### Description

Bituthene 8000 combines the proven Bituthene adhesive technology with a unique, grey coloured carrier film to provide superior performance and easier installation. Bituthene 8000 is extremely tough, but any accidental damage which would otherwise be missed, is made visible by the black compound showing through the light grey film.

Physical Properties	Value	Test Method
Colour	Dark grey - black	
Resistance to hydrostatic head	>70m of water	ASTIM D5385
Methane Permeability (note 1)	89.52ml/m <sup>2</sup> day atm	Versaperm Ltd
Radon Diffusion Coefficient	6.8 x 10 <sup>-13</sup> m <sup>2</sup> /s	University of Prague

#### Advantages

- Water and vapour proof – provides protection for all basements, BS 8102 : 2009.
- Gas resistant – methane, carbon dioxide and radon gas protection in excess of the standard membrane requirements in BRE Reports 211 (radon) and 212 (methane and carbon dioxide).
- Superior performance – 70 m hydrostatic pressure resistance with ultra low moisture transmission rate.
- Wide application “window” reduces delays – application temperature range from -10°C to +35°C and damp surface tolerant.
- Easier handling in warm weather – over 20% reduction of solar heat absorption.
- Unique composite film – engineered for strength, flexibility and a smooth finish.
- Facilitates quality assured installation – printed overlap line ensures minimum laps; light grey colour highlights accidental damage for simple patch repairs.
- System Compatibility – can be combined with Preprufe pre-applied membranes, Bituthene LM, and Hydroduct for system solutions.



### Sheetseal GR

RIW Sheetseal GR is a radon gas barrier and one of the most effective gas methane barrier systems available. It is a cold applied, high density polyethylene film, bonded to aluminium foil and coated with a bitumen / rubber self adhesive layer with a removable reinforced silicone release paper.

Performance & Composition	Value
Form	Self adhesive sheet
Backing material	Cross orientated polyethylene with aluminium laminate
Overall thickness	1.60mm
Applied thickness	1.50mm
Roll size	1050mm x 19.05m long rolls
Weight	1.7kg / m <sup>2</sup>
Laps	150mm

#### Typical Uses

RIW Sheetseal GR is typically used to reduce the passage of methane gas and carbon dioxide on, or in the vicinity of landfill sites. The membrane is also suitable for use on sites contaminated by town gas installations or where other harmful gases are present. In addition, RIW Sheetseal GR provides a water and water vapour barrier. When designing Type A structure (as classified in BS 8102 : 1990), the product applied correctly is capable of providing the levels of protection required for grades 1, 2, 3, & 4 basements. RIW Sheetseal Primer is used on all vertical or inclined surfaces, to aid adhesion of the RIW Sheetseal GR membrane.





### Proofex Total

High performance, totally gas-impervious, reinforced membrane.

Proofex Total is a black, 6-layer, reinforced, totally gas impermeable membrane comprising an aluminium foil layer and a polyester reinforcing grid sandwiched between four layers of polyolefins. It is a reinforced gas membrane designed to protect buildings and their occupants from the effects of methane, radon, carbon dioxide and other harmful gases.

Typical Properties	Value
Membrane thickness	0.54mm
Weight (DIN53104)	435g/m <sup>2</sup>
Roll weight (2m x 25m)	22kg
Water vapour permeability (75%RH/25oC)	0.00 (BS 3177)
Methane gas transmission rate (BR212)	0.00
Bursting strength (DIN53141)	800kPa (min)

### Proofex 3000MR

Proofex 3000MR is a cold applied, flexible, methane resisting and waterproof high performance membrane incorporating an aluminium layer and a polymer modified bitumen compound on a high strength polymer backing film.

Typical Properties	Value
Membrane thickness	1.2mm
Methane gas resistance	<5cm <sup>3</sup> /m <sup>2</sup> 24h bar
Radon permeability (SP Sweden)	0.56 10-12m <sup>2</sup> /s
Adhesion to primed concrete (75%RH/25oC)	4.9 N/mm <sup>2</sup> (BS 3177)
Methane gas transmission rate (BR212)	0.00
Bursting strength (DIN53141)	800kPa (min)

### Advantages

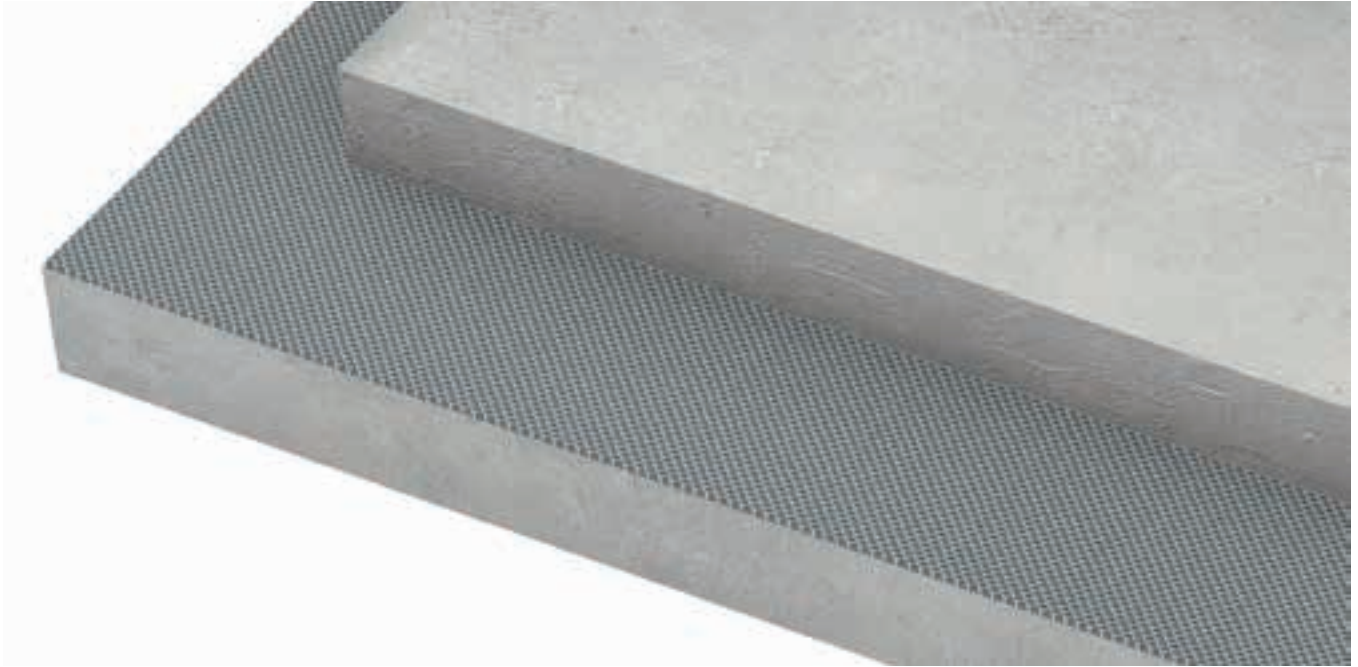
- Independently certified performance, BBA certificate no. 01/3850.
- 6-layer product design for maximum gas protection.
- Polyester reinforcing grid for puncture resistance during application.
- Loose-laid system for ease of application.
- Can be used on ground-bearing concrete floors or on suspended concrete or beam and block floors.
- Can be used to form a cavity tray, eradicating the need for a separate product.

### Advantages

- Aluminium film provides methane, radon and CO<sub>2</sub> resistance, protection against damage and gives dimensional stability.
- Combines toughness with flexibility for detailing around corners, pipes, etc.
- Self adhesive layer system makes installation quick, simple and reliable.
- Resistant to ground water, soluble sulphates and chlorides.
- Suitable for waterproofing basements grades 2, 3 and 4 as defined in BS 8102 : 1990, 'Protection Of Structures Against Water From The Ground'.

Technical Data Sheets, Material Safety Data Sheets, Installation Guides and Advice are available on request.

# PRE-APPLIED WATERPROOFING MEMBRANES



Pre-applied waterproofing membranes are designed to bond and remain in place to poured concrete.



## Proofex Engage

Proofex Engage is a pre-applied waterproofing membrane which mechanically bonds to poured concrete, remaining in place if settlement of substrate occurs.

A unique patented waterproofing membrane for a range of waterproofing applications, including basements and substructures. Proofex Engage provides a water, water vapour and gas protection to water excluding structures and protects concrete from aggressive ground salts and chemicals.

Proofex Engage comprises of a complex mesh bonded to polyethylene membrane which allows poured concrete to interlock with the membrane, forming a tenacious mechanical bond.

<b>Proofex Engage</b>	<b>Size:</b> 1.27m x 30m x 5mm
<b>Ancillary Products:</b>	
<b>Proofex Detail Strip</b>	<b>Size:</b> 200mm x 10m x 1.5m
<b>Proofex L Section</b>	<b>Size:</b> 250mm x 5m
<b>Proofex LM</b>	<b>Size:</b> 28kg pack



## Benefits

- Unique mesh system bonds permanently to concrete, remains in place even if settlement takes place.
- Basement waterproofing protection to grades 2, 3 and 4 as defined in BS 8102 : 1990.
- Methane, Radon and CO<sub>2</sub> protection as defined in BRE Report 212.
- BBA Certification.
- Protects concrete from attack from chemicals and aggressive ground salts.
- Simple application – requires no primer or protection.
- Inert product – no risk of a reaction with ponded water prior to concrete being poured.



## Preprufe 300R & 160R

Preprufe 300R and 160R membranes are unique composite sheets comprising a thick HDPE film, an aggressive pressure sensitive adhesive and weather resistant protective coating. The unique Preprufe membranes bonded to concrete prevent ingress or migration of water around the structure.

**Preprufe 300R** is a heavy duty grade for use below slabs and on rafts (i.e mud slabs). Designed to accept the placing of heavy reinforcement using conventional concrete spacers.

**Preprufe 160R** is a thinner grade for blindside, zero property line applications against soil retention systems.

Preprufe 300R & 160R membranes are applied either horizontally to smooth prepared concrete, carton forms, well rolled and compacted earth or crushed stone substrate; or vertically to permanent formwork or adjoining structures. Concrete is then cast directly against the adhesive side of the membranes. The specially developed Preprufe adhesive layers work together to form a continuous and integral seal to the structure.

<b>Preprufe 300R</b>	<b>Size:</b> 1.2m x 30m
<b>Preprufe 160R</b>	<b>Size:</b> 1.2m x 35m
<b>Ancillary Products:</b>	
<b>Preprufe LT Tape</b>	<b>Size:</b> 100mm x 15m roll
<b>Bituthene LM</b>	<b>Size:</b> 5.7ltr pack

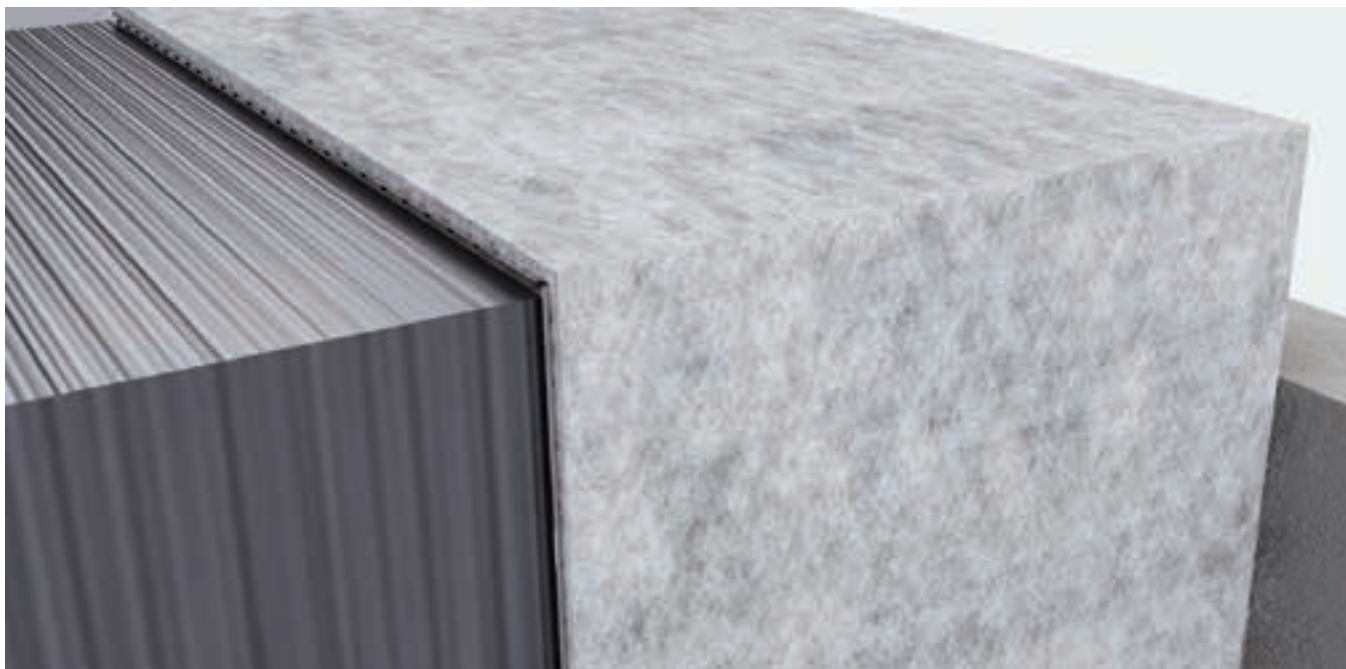


## Benefits

- Forms a unique continuous adhesive bond to concrete poured against it - prevents water migration and makes it unaffected by ground settlement beneath slabs.
- Fully-adhered watertight laps and detailing.
- Provides a barrier to water, moisture and gas - physically isolates the structure from the surrounding ground.
- BBA Certified for basement Grades 2, 3, & 4 to BS 8102 : 1990.
- Zero permeance to moisture.
- Solar reflective - reduced temperature gain.
- Simple and quick to install - requiring no priming or fillets.
- Can be applied to permanent formwork - allows maximum use of confined sites.
- Self protecting - can be trafficked immediately after application and ready for immediate placing of reinforcement.
- Unaffected by wet conditions - cannot activate prematurely.
- Inherently waterproof, non-reactive system:
- Not reliant on confining pressures or hydration.
- Unaffected by freeze/thaw, wet/dry cycling.
- Chemical resistant - effective in most types of soils and waters, protects structure from salt or sulphate attack.

Technical Data Sheets, Material Safety Data Sheets, Installation Guides and Advice are available on request.

# DRAINAGE SHEET MEMBRANES



A range of drainage sheet membranes are available for backfilled walls, earth covered roofs, wall cavities and under slab situations.

## Wall & Roof Drainage

Drainage sheets are used to relieve hydrostatic pressure against vertical walls of buried structures – basements, retaining walls, reservoirs, tunnels, bridge abutments, culverts, underground car parks and on roofs such as earth covered reservoirs.

The wall and roof drainage membranes are geocomposite sheets consisting of a high density polyethylene cusped core with a bonded geotextile filter. The filters are specifically developed to permit free entry of water and to prevent soil particles from clogging the drainage system.

Wall drainage sheets are a cost effective alternative to 'French' drains. They are placed with the geotextile filter facing the direction of water seepage or backfill. They can be applied directly against masonry and concrete; also against waterproofing membranes which in turn also acts as a membrane protection board.

## Systems Available



Walldrain/Roofdrain

**Sizes:** 6mm x 0.97m x 100m roll  
12mm x 1m x 50m roll  
25mm x 0.9m x 50m roll



Proofex Sheetdrain 80

**Size:** 8mm x 2m x 20m roll

Proofex Sheetdrain 100

**Size:** 10mm x 2m x 12.5m roll



Double Drain

**Size:** 8mm x 2m x 15m rolls



### Cavity Drainage

Cavity drainage membranes are dimpled HDPE sheets used to provide a drainage void relieving both water and gas pressure in floors beneath slabs and wall cavities.

They are generally used in type C construction to provide grade 4 protection, minimising water entry in accordance with BS 8102 : 1990 'Protection of structures against water from the ground'.

### Systems Available



#### Slabdrain

**Sizes:** 10mm x 0.97m x 50m roll  
20mm x 0.97m x 50m roll



#### Proofex Cavitydrain 80 Proofex Cavitydrain 200

**Size:** 8mm x 2m x 30m roll  
**Size:** 20mm x 2m x 20m roll

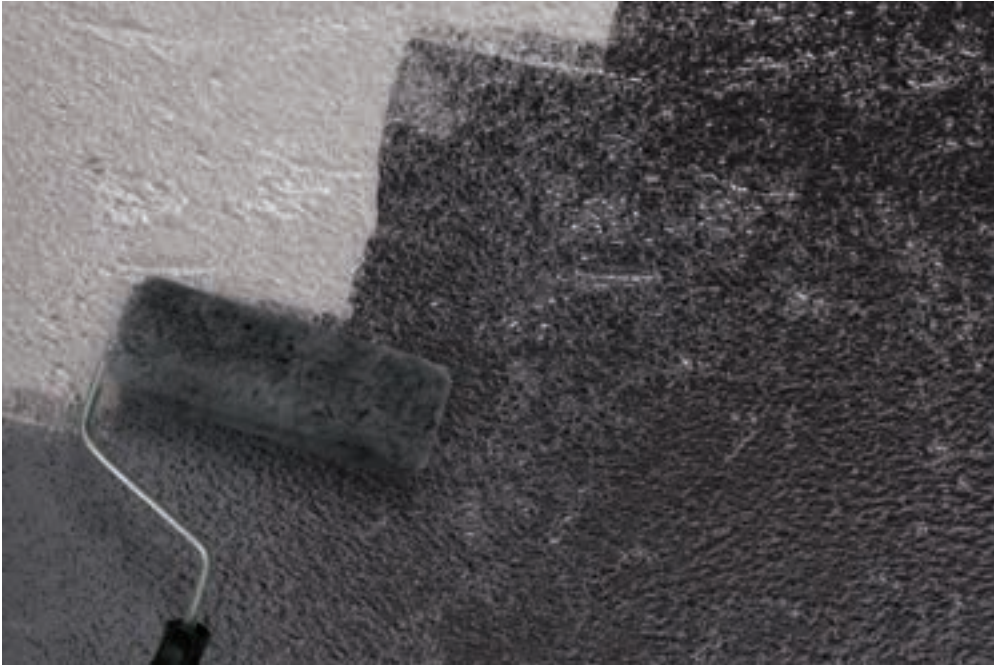


#### Cavity Drain

**Sizes:** 20mm x 2.07m x 20m rolls

Technical Data Sheets, Material Safety Data Sheets, Installation Guides and Advice are available on request.

# LIQUID APPLIED MEMBRANE



Brush Application



Roller Application



Trowel Application

RFA-TECH supply a range of liquid compounds used to waterproof underground structures and to assist in sealing the intricate details of other waterproofing systems.



## Bitusheet Asphaltic Compound



Bitusheet Asphaltic Compound is a damp proof solution, used in two coats to provide a damp proof membrane in solid floors or for protecting foundations, retaining walls, abutments, beams, lintels and similar structures against moisture and attack from sulphates contained within the soil. Bitusheet Asphaltic Compound is suitable for application to a variety of substrates including concrete, masonry, steel and similar surfaces, and provided it is protected from mechanical damage, provides a waterproof flexible membrane.

**Size:** 25ltr drums

**Coverage:** 1st coat = 1.5m<sup>2</sup>/ltr  
2nd coat = 2.5m<sup>2</sup>/ltr



## Bituthene LM



Bituthene LM is a two component elastomeric, liquid applied detailing compound. It is designed to compliment Grace sheet systems where liquid applied waterproofing is necessary to ensure watertight continuity. Bituthene LM cures to form a tough seamless, rubber-like waterproof layer. Typical details suitable for Bituthene LM are pile terminations, pipe penetrations, internal corners, difficult details and can be used to form an angle fillet. The two parts of Bituthene LM are mixed on site and trowelled on to provide a simple quick waterproofing detailing aid in conjunction with Bituthene and Preprufe sheet systems.

**Size:** 5.7ltr pack

**Coverage:** 2.5mm x 300mm = 7.6m per pack  
20mm fillet = 28.4m per pack



### RIW LAC



RIW Liquid Asphaltic Composition is a two coat, cold applied damp proof membrane, which dries to a black gloss finish. The coating is a solution of natural and petroleum bitumens in white spirit. RIW Liquid Asphaltic Composition is typically used as a damp proof membrane to ground floors, as a vapour barrier behind cladding and for tanking of basements. It is also suitable for waterproofing foundation walls, ducts, lintels, columns, beams and similar structures at, above and below ground level.

**Size:** 5ltr, 25ltr & 205ltr containers

**Coverage for two coats:** 1m<sup>2</sup>/ltr

### RIW Toughseal



RIW Toughseal is a solvent free polymer modified epoxide coating, supplied as a two part pack, base and hardener in pre measured proportions. RIW Toughseal is typically used to provide a water and water vapourproof barrier, or to give protection against abrasion, fresh and saltwater, carbon dioxide, alkalis and dilute mineral acids. It is resistant to U.V. light and atmospheric attack. The coating can be used to protect iron and steel against corrosion.

**Size:** 5ltr & 20ltr packs (two part)

**Coverage:** 2m<sup>2</sup>/ltr (2 coats)

### RIW Flexiseal



RIW Flexiseal is a solvent free thixotropic liquid base on urethane pre-polymers, which in contact with atmospheric moisture, cures to give a continuous tough rubber-like coating. Suitable substrates include concrete, masonry, steel, asbestos cement, timber and sprayed polyurethane foams. When designing Type A structures (as classified in BS 8102:1990), the product applied correctly is capable of providing the levels of protection required for Grades 1, 2, 3 & 4 basements.

**Size:** 6kg & 25kg containers

**Coverage:** 1m<sup>2</sup>/kg (2 coats)

**Primer:** 5 & 20ltr containers

**Coverage:** 8m<sup>2</sup>/ltr (1 coat)

### RIW Hydrocoat



RIW Hydrocoat is a cold applied, fast drying, two coat black bitumen coating, which dries to form a water and water vapour barrier. Typical uses include the protection of iron and steel against corrosion and concrete structures against ground water. The coating may also be used to line tanks where potable water is to be stored.

**Size:** 5ltr, 25ltr & 205ltr containers

**Coverage:** 3m<sup>2</sup>/ltr (2 coats)



### Proofex LM



Proofex LM is a two component bituminous rubber emulsion, with special hydraulically hardening fillers used to waterproof external underground structures and intricate details such as pipe entries and coverings. Proofex LM can be applied to damp surfaces, it is seamless and flexible with crack-bridging capabilities. Simply applied by trowel and is environmentally friendly, harmless to ground water and resistant to aggressive ground water.

**Size:** 28kg pack

**Coverage:** 4-6kg/m<sup>2</sup> (normal loadings)

Technical Data Sheets, Material Safety Data Sheets, Installation Guides and Advice are available on request.

# CEMENTITIOUS WATERPROOF COATINGS



Brush Application



Roller Application



Spray Application



Trowel Application



Hand Application

RFA-TECH supplies a range of cementitious coatings which provide waterproof and protective barriers for concrete, brick and blockwork surfaces.



## Cementitious Coating 851

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.

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.

**Size:** 30kg Pack

**Yield:** Approx 16 Litres



## Advantages

- 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.





### Cemprotec E942

Cemprotec E942 provides 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. Cemprotec E942 is pre-packaged in convenient and easy to handle sizes and requires only mixing on site.

CE marked in accordance with BS EN 1504 Part 2. London Underground Standard 2-01001-002 'Fire Safety Performance of Materials' for unrestricted use below ground.

<b>Size:</b> 15kg Pack	<b>Yield:</b> Approx 8 Litres
<b>Size:</b> 30kg Pack	<b>Yield:</b> Approx 16 Litres

### Cemprotec Elastic

Cemprotec Elastic is an elastomeric, cementitious modified 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 or buried roofs. Cemprotec Elastic is pre-packaged in convenient and easy to handle sizes and requires only mixing on site.

CE marked in accordance with BS EN 1504 Part 2.  
WRAS Approved for use in contact with potable water.

<b>Size:</b> White 15kg Pack	<b>Yield:</b> Approx 9 Litres
<b>Size:</b> Grey 30kg Pack	<b>Yield:</b> Approx 18 Litres

### Cemprotec 2000-S

Cemprotec 2000-S is an advanced, elastomeric, highly tear resistant, breathable, waterproof composite tape, which is embedded in the Cemprotec range of cementitious coatings to give a highly flexible, impermeable seal over 'live' cracks and expansion or construction joints in waterproofing applications.

WRAS approved.

<b>Cemprotec 2000-S</b>	<b>Sizes:</b> 12cm x 10m Roll
	12cm x 50m Roll
	20cm x 50m Roll



#### Advantages

- 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.
- 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.



#### Advantages

- Brush, trowel or spray applied, normally in two coats. Flooring applications are a one coat operation.
- 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.
- 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 and non-toxic, free from hazardous solvents, making it suitable for use in confined spaces.



#### Advantages

- Permanently elastomeric composite tape exhibiting over 600% elongation.
- Used in conjunction with Flexcrete's range of Cemprotec cementitious coatings to enable rapid application.
- Excellent weathering resistance and highly tolerant of a wide range of chemicals.
- Impermeable to water under 10 bar hydrostatic pressure (100m head of water).



### Aquatek Super XA



High performance, easy to use cement-based slurry for waterproofing concrete surfaces with negative water pressure during application. When mixed with water and applied to a concrete surface, Aquatek Super XA waterproofs and permanently seals through saturation of the capillaries. Used for both below and above ground level structures, such as basements, water reservoirs, water treatment plants, tunnels, canals, conduit pipes, ponds etc. Simply applied by brush or spray equipment.

<b>Size:</b> 25kg Bag	<b>Coverage:</b> Approx 16m <sup>2</sup>
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### Aquatek Elastic 2C



Aquatek Elastic 2C is a two component coating containing cement, selected silica's, fibres, modifiers and water-based acrylic liquid. Aquatek cures into a flexible, waterproof coating which allows movement up to 0.6mm to 1.2mm if reinforced with reinforcement mesh. For use against concrete and blockwork surfaces, it is approved for use with potable water and typical applications include horizontal and vertical use in water reservoirs, tunnels, caves, swimming pools etc.

<b>Size:</b> 32kg Pack	<b>Coverage:</b> Approx 8m <sup>2</sup>
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### Nitocote CM210



Nitocote CM210 is a flexible cementitious coating, used for waterproofing water retaining structures and water excluding structures. It is a two-component polymer modified coating supplied in a pre-packaged form, designed to be easily mixed on-site using a slow speed drill and mixing paddle. Easily applied by brush, roller, trowel or sprayer. Nitocote CM210 is suitable for use in potable water tanks, reservoirs, canals, culverts and can be used on concrete, brick and blockwork substrates.

<b>Size:</b> 23.2kg Pack	<b>Coverage:</b> Approx 12.5m <sup>2</sup>
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## Sika 1

Pre-Bagged Structural Waterproofing System.



### Product Description

Sika 1 mortars are prebatched kiln dried blends of specially graded aggregates and cements packaged in 4 grades at the appropriate mix ratios for optimum application performance and durability.

When mixed with the diluted Sika 1 liquid waterproofing admixture they provide the multicoat components for the structural waterproofing and waterproof render systems. The mortars are used to resist water pressure below ground, screed to resist water pressure below ground, rendered to resist moisture and dampness above ground level and to provide an Internal waterproof tanking system.

Key characteristics include low wastage, for brick, concrete and stone substrates, wall render and screed application, can be used internally and externally, can be over-plastered, coated and decorated, standalone waterproofing system against ground water pressure.

All mortars supplied with coloured band.

- Spritz Mortar – Red band
- Render Mortar – Brown band
- Finishing Mortar – Green band
- Screed Mortar – Blue band

Mortars	Size:	25kg Bag
Liquid Admixture	Size:	25 Litre Drum

**Please contact our sales office for system application and coverage data.**



## SikaTop Seal-107

### Product Description

SikaTop Seal-107 is a two part polymer modified cementitious waterproof mortar slurry comprising of a liquid polymer and a cement based mix incorporating special admixtures.

### Uses

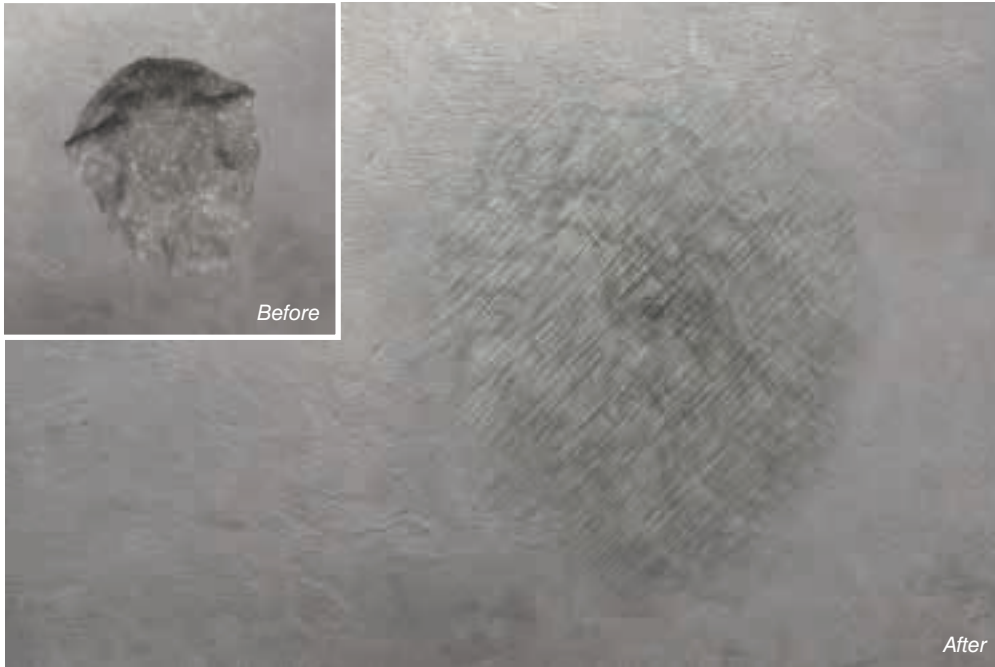
SikaTop Seal-107 is used for:

- Interior and exterior waterproofing and damp-proofing of concrete, cementitious rendering, brickwork and blockwork
- Protection of concrete structures against the effects of de-icing salts and freeze-thaw attack
- Rigid waterproofing of basement walls in new construction and refurbishment
- Pore / blowhole filling
- Waterproofing basement and cellars (not subject to hydrostatic water pressure)
- Sealing fine “hairline” cracks in concrete structures (not subject to movement)
- Levelling mortar for concrete repair works

Size: 25kg Pack	Coverage: Approx 12.5 Litres
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**Technical Data Sheets, Material Safety Data Sheets, Installation Guides and Advice are available on request.**

# CONCRETE REPAIR & PROTECTION PRODUCTS



Brush Application



Roller Application



Spray Application



Trowel Application



Hand Application

RFA-TECH can supply you with a vast range of concrete repair products; this section gives you a snap-shot selection of what we can offer:

## Aquatek Plug / Plug XF



Aquatek Plug & Plug XF provide rapid setting plugging mortars, which can be applied even under water. They stop active water leaks and seepage, even under high pressure through joints, cracks, honeycombing and holes in all structures made out of concrete, masonry, stone, and renders. Aquatek Plug has a final setting time of 3 minutes, Aquatek Plug XF of 30 seconds.

<b>Size:</b> 10kg Pack	<b>Coverage:</b> 1.45kg per dm <sup>3</sup>
25kg Pack	1.45kg per dm <sup>3</sup>



## Colflex HN – Joint Sealing Repair Strip



Colflex HN is a ready to use NBR rubber tape repair sealing system for cracks and joints in concrete. It is suitable for use in joints leaking under both negative and positive pressure and moving joints such as expansion joints. It is applied with Multitek Adhesive SD (dry) or SDW (wet).

<b>Colflex HN</b>	<b>Sizes:</b> 100mm x 20m / 200mm x 20m
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## Omnitek RM Fiber



Omnitek RM Fiber is classified as an R4 class, structural, high strength waterproof repair mortar according to EN1504-3 and is suitable for structural and non-structural low and medium thickness concrete repairs. Omnitek RM Fiber is not considered a waterproofing coating but is ideally suited for preparing surfaces before the application of a waterproofing treatment.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 11.5 Litres
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### Flexcrete Monomix



Monomix is a low density, high strength, shrinkage compensated mortar for the structural repair, rendering and profiling of vertical, horizontal and overhead surfaces.

<b>Size:</b> 25kg Pack	<b>Yield:</b> Approx 16.5 Litres
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### Flexcrete Monolevel FC (Fairing Coat)



Monolevel FC is a single component, 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. The product is supplied ready for on-site mixing and requires only the addition of clean water.

<b>Size:</b> 25kg Pack	<b>Yield:</b> Approx 15 Litres
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### Flexcrete Monolevel RM (Render Mortar)



For the rendering and profiling of in-situ and precast concrete in vertical, horizontal and overhead surfaces. Can also be applied by wet spray techniques. Monolevel RM is a single component, cementitious mortar which cures rapidly to produce a high performance, fair-faced render. The product is supplied ready for on-site mixing and requires only the addition of clean water.

<b>Size:</b> 25kg Pack	<b>Yield:</b> Approx 14.5 Litres
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### Flexcrete Fastfill



Fastfill is a single component, polymer modified, fibre reinforced, Portland cement based repair compound, which is physically and chemically compatible with the host concrete. It exhibits unique hydraulic properties to produce a rapid curing mortar with enhanced polymeric properties and reliable strength development which is not significantly affected by low temperature use.

<b>Size:</b> 25kg Pack	<b>Yield:</b> Approx 13 Litres
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### Tiefill



Tiefill is used for the filling of tie-holes formed by formwork bolts in new construction, particularly where a rapid setting, durable, waterproof mortar is required. It can also be used for sealing grout holes and voids and fixings in precast elements. Tiefill requires only the addition of water and will set within 30 minutes. It will resist 10 bar pressure after 72 hours curing. Supplied in an 8kg tub which yields 4.1 litres.

<b>Size:</b> 8kg Pack	<b>Yield:</b> Approx 4 Litres
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### Cemprotec 2000-S



Cemprotec 2000-S is an advanced, elastomeric, highly tear resistant, breathable, waterproof composite tape, which is embedded in the Cemprotec range of cementitious coatings to give a highly flexible, impermeable seal over "live" cracks and expansion or construction joints in waterproofing applications. Cemprotec 2000-S can be used in conjunction with the range of Flexcrete Cemprotec cementitious coatings.

<b>Flexcrete Cemprotec 2000-S</b>	<b>Sizes:</b> 12cm x 10m / 12cm x 50m / 20cm x 50m
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**Sika Monotop 610.** Cementitious Based Steel Reinforcement Primer and Bonding Bridge.

Sika Monotop 610 is a one component, cementitious, polymer modified primer for reinforcement protection and also a bonding bridge for Monotop concrete repair mortars.

<b>Sizes:</b> 10kg Bag 25kg Bag	<b>Yield:</b> Approx 5 Litres Approx 12.5 Litres
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**Sika Monotop 612.** R4 Hand Placed / Wet Spray Repair Microconcrete.

Sika Monotop 612 is a cement-based, one component, low permeability repair microconcrete, containing silica fume and polymer, meeting the requirements of Class R4 of BS EN 1504-3.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 11.5 Litres
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**Sika Monotop 615.** R3 Cementitious High Build Concrete Repair Mortar.

Sika Monotop 615 is a one component, cement based polymer modified high build repair and reprofiling mortar, meeting the requirements of Class R3 of BS EN 1504-3.

<b>Size:</b> 25kg Bag	<b>Coverage:</b> Approx 15m <sup>2</sup> @ 1mm
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**Sika Monotop 620.** Cementitious Smoothing Coat / Levelling Mortar & Pore Sealer.

Sika Monotop 620 is a one component, cementitious, polymer modified mortar.

<b>Size:</b> 25kg Bag	<b>Coverage:</b> Approx 12.5m <sup>2</sup> @ 1mm
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**Sika Rapid Repair Mortar.** R4 Fast Setting Cementitious Repair Mortar.

Sika Rapid Repair Mortar is a one component, fast setting, cementitious repair mortar, meeting the requirements of Class R4 of BS EN 1504-3.

<b>Size:</b> 25kg Bag	<b>Coverage:</b> Approx 11.9m <sup>2</sup> @ 1mm
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**Sikatop 122.** Cementitious Concrete Repair Mortar.

SikaTop 122 is a two component, polymer modified, cement based fibre reinforced concrete waterproof repair mortar.

<b>Sizes:</b> 10kg Bag 25kg Bag	<b>Coverage:</b> Approx 4.7m <sup>2</sup> @ 1mm Approx 11.9m <sup>2</sup> @ 1mm
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**Sikatop 122HB.** Cementitious High Build Concrete Repair Mortar.

Sikatop 122HB is a two component, polymer modified, cement based high build concrete repair mortar.

<b>Sizes:</b> 10kg Bag 34kg Bag	<b>Coverage:</b> Approx 7m <sup>2</sup> @1mm Approx 24m <sup>2</sup> @ 1mm
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### weber.cem HB40



weber.cem HB 40 is a single-component, polymer-modified, high build cementitious mortar designed for structural repairs. It requires only the addition of clean water to produce a lightweight, low permeability, high strength mortar for both soffit and vertical repair situations. The mortar is suitable for repairs to bridges and other structures as specified by the Department of Transport. weber.cem HB40 will give a final strength of 40kN/mm<sup>2</sup>.

<b>Size:</b> 20kg Bag	<b>Yield:</b> Approx 16 Litres
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### weber.cem HB30



weber.cem HB30 is a single-component, polymer-modified, high build cementitious mortar designed for concrete repairs to facades where high compressive strength is not the major consideration. It requires only the addition of clean water to produce a lightweight, low-permeability, medium strength mortar suitable for both soffit and vertical repair situations. weber.cem HB30 will give a final strength of 30kN/mm<sup>2</sup>.

<b>Size:</b> 20kg Bag	<b>Yield:</b> Approx 16 Litres
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### Emaco NanoCrete R2



Emaco NanoCrete R2 is a universal, single component, polymer modified, fast setting, repair, reprofiling and levelling mortar. Emaco NanoCrete R2 is ideal for general, non-structural patch repairs where fast setting properties with short over-coating times are needed. It exhibits excellent high build properties allowing up to 100 mm thickness in one layer. Approved by the United Kingdom Water Regulations Advisory Scheme, Listing No.0609530.

<b>Size:</b> 20kg Bag	<b>Yield:</b> Approx 10.5 Litres
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### Emaco NanoCrete R3



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

<b>Size:</b> 20kg Bag	<b>Yield:</b> Approx 11.5 Litres
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### Emaco NanoCrete R4



Emaco NanoCrete R4 is a single component, extra high-strength, high modulus, shrinkage compensated structural repair mortar that meets the requirements of the new European Norm EN 1504 part 3 class R4. Approved by the United Kingdom Water Regulations Advisory Scheme, Listing No.0609502.

<b>Size:</b> 20kg Bag	<b>Yield:</b> Approx 11 Litres
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We can offer a comprehensive range of Fosroc repair and remediation products which include the following:

### Nitomortar FC (Fairing Coat)



Epoxy resin fairing coat for filling blow-holes, and eliminating minor irregularities prior to the application of Nitocote and Nitoflor epoxy coatings.

<b>Size:</b> 1kg Pack	<b>Yield:</b> Approx 0.6 Litres
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### Nitomortar HB (High Build)



High build epoxy reinstatement mortar for the fast and permanent reinstatement of concrete, particularly where resistance to chemicals is required. Nitomortar HB can be used for small, localised patch repairs and because of its lightweight nature, is ideally suited for use in vertical and overhead locations and for emergency repairs where fast strength gain is important.

The full range of Nitomortar products including PE, S & UA are also available.

<b>Size:</b> 2.9kg	<b>Yield:</b> Approx 2.5 Litres
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### Renderoc GP (General Purpose)



High performance medium weight concrete reinstatement mortar conforming to the requirements of BS EN 1504-3 Class R3 for the reinstatement of concrete where low permeability characteristics are required but where high compressive strength is not the most important consideration. Where higher compressive strengths and low permeability characteristics are required, Renderoc HB45 should be used. Renderoc GP has been specifically developed for vertical repair work.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 16 Litres
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### Renderoc FC (Fairing Coat)



Single component polymer modified cementitious fairing coat conforming to the requirements of BS EN 1504-3 Class R2. Renderoc FC is designed for application in thin layers to produce a fair-faced appearance to concrete surfaces or masonry surfaces in readiness to receive a protective or decorative coating. Surface imperfections up to 3mm in depth can be filled with the scrape-coat application. Voids of greater depth should be separately filled as a prior operation, again limiting the material thickness to 3mm.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 15 Litres
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### Renderoc HB (High Build)



High performance lightweight concrete reinstatement mortar conforming to the requirements of BS EN 1504-3 Class R2 for the reinstatement of concrete where low permeability characteristics are required but where high compressive strength is not the most important consideration. If high compressive strengths and low permeability characteristics are required, Renderoc HB45 should be used.

The full range of Renderoc products including HB30, HB45, HBM, HBS, S, ST05 and others are also available.

<b>Size:</b> 18kg Bag	<b>Yield:</b> Approx 15 Litres
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### Patchroc GP



Fast setting emergency patching mortar for concrete pavements and floors conforming to the requirements of BS EN 1504-3 Class R4 for emergency and permanent reinstatement of localised patches in concrete pavements, airport aprons, access ramps and floors. Particularly useful when interruption of traffic must be minimised. The product is alkaline in nature and will protect embedded steel reinforcement. It may be used internally and externally. For the reinstatement of large areas of concrete pavements and floors, the use of Paveroc is recommended.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 12 Litres
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### Paveroc



High performance reinstatement mortar for concrete pavements and floors conforming to the requirements of BS EN 1504-3 Class R4 for the reinstatement of large areas of concrete pavements and floors to avoid the total replacement of bays. The product is alkaline in nature and will protect embedded steel reinforcement. It may be used internally and externally. Patchroc GP is recommended for emergency patching of small areas of concrete pavements and floors.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 11.5 Litres
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### Galvafruid



Galvafruid is zinc rich, cold galvanising coating used to provide a galvanic protection on iron and steel. It can be used as a self-finish or as a durable rust inhibiting primer beneath selected top coats. It is recommended for the protection of structural steelwork, agricultural and construction plant and machinery, gates, railings, iron pipework and guttering and the rust prevention of in-situ welding work. Galvafruid zinc rich coating is formulated as an easily applied, cold galvanising protection against corrosion on all ferrous metals. Galvafruid has a mid-grey, matt finish.

<b>Galvafruid</b>	<b>Sizes:</b> Pack of 6 x 400ml Tins
	Pack of 4 x 800ml Tins
	1.9 Litre Tin
<b>Fosroc Thinner / Cleaner</b>	<b>Size:</b> 0.5 Litre Tins

Technical Data Sheets, Material Safety Data Sheets, Installation Guides and Advice are available on request.

# AIRLESS SPRAY EQUIPMENT

For improved application rates and finer finishes when applying cementitious coatings, we have found Graco pumps and spray equipment to provide the most satisfactory results. RFA-TECH supply a suitable range of Graco pumps and required accessories such as hoses, spray guns, tips, tip guards and filters. We can also advise on which units and tip sizes will give the best result for the product you are using. Please ask our specialists for advice on our range of airless spray equipment.



## Pumps

### King

King Airless Pump	Quantity: 1
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### NXT Extreme

NXT Extreme Pump	Quantity: 1
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### G-Max II 7900

G-Max II 7900 Pump	Quantity: 1
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For the Flexcrete range of cementitious coatings we have specific data on optimum settings for the range of Graco pumps and equipment. The following settings for tip size selection and pressure setting for individual machine models should achieve correct application coverage and the desired results.

## Tip Size

Product	Tip Size
Cementitious Coating 851	XHD555
Cemprotec E942	XHD543
Cemprotec Elastic	XHD551

## Typical Settings

Model	Compression Ratio	Machine Setting (psi)	Pressure At Tip (psi)
King and NXT	45:1	60	2700
	60:1	70	4200
G-Max II 7900	NA	2500-3100	2500-4000

## Accessories



### Reinforced High Pressure Hose

Graco 3/8" reinforced high pressure hose fitted with a swivel tip.

Reinforced High Pressure Hose	Quantity: 1
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### Graco XTR7 Airless Spray Gun

Graco XTR7 Airless Spray Gun	Quantity: 1
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### Graco XHD RAC Switch Tip

Graco XHD RAC Switch Tip	Quantity: 1
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### Graco XHD Tip Guard

Graco XHD Tip Guard	Quantity: 1
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### Graco XHD RAC 5TM Tip Guard

Graco XHD RAC 5TM Tip Guard	Quantity: 1
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### 225-250 CFM Compressor

225-250 CFM Compressor	Quantity: 1
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### XTR 7 Gun Pencil Filter

XTR 7 Gun Pencil Filter	Quantity: 1
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### Pump Pressure Pot Filters

Pump Pressure Pot Filters	Quantity: 1
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# GROUTING, ANCHORING & BEDDING



Pour Application



Spray Application



Gun Application



Trowel Application



Hand Application



Pump Application

Precision and structural grouts are of critical importance in providing solutions for building, mechanical and structural engineers. Choosing the right material to fix and anchor equipment and machinery is fundamental, as failure can impact on safety as well as proving costly to rectify. RFA-TECH supplies a full range of cementitious, epoxy and polyester grouts and anchor products from the industries leading manufacturers to suit these applications.



## Masterflow 101



A pouring grade flowable epoxy bedding compound formulated to withstand static and dynamic loads in a wide variety of applications.

<b>Size:</b> 25kg Pack	<b>Yield:</b> Approx 10 Litres
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## Masterflow 102CS



A styrenated polyester resin coaxial cartridge system for anchoring dowel bars and threaded bolts.

<b>Sizes:</b> 150ml Cartridge	<b>Yield:</b> 150ml
380ml Cartridge	380ml

## Masterflow 155RG



Resilient flowable grout with cork particles, for supporting and fixing rail track.

<b>Sizes:</b> 8 Litre Pack	<b>Sizes:</b> 8 Litre
20 Litre Pack	20 Litre



### Masterflow 648CP



High temperature, high strength, epoxy resin grout for heavy, dynamic and static loads.

<b>Size:</b> 28.7kg Pack	<b>Yield:</b> Approx 13 Litres
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### Masterflow 760



Non-reactive, shrinkage compensating, high strength, multi-purpose flowable grout which complies with Department of Transport Specification for Highway Works – Clause 2601 for Bedding Mortar.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 13 Litres
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### Masterflow 765



A non-shrink construction grout. It can be used from fluid to plastic consistencies for grouting of equipment and machinery, bearing pads, rails and anchoring.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 13 Litres
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### Masterflow 885



High strength metallic aggregate reinforced non-shrink, non catalysed grout with load bearing properties.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 12.5 Litres
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### Masterflow 928



A specially prepared, non-shrink, high-strength grout achieving 80N/mm<sup>2</sup> strength. Ideal product to use for a natural coloured grout.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 13 Litres
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### Emaco Nanocrete R4 Fluid



Emaco Nanocrete R4 Fluid is a single component, high strength, shrinkage compensated, fluid or flowable mortar for structural repair works. The product meets the requirements of the new European Norm EN1504 part 3 – Class R4.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 13 Litres
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### Conbextra EP10

Epoxy resin free-flow grout for gap thicknesses from 0.25 to 10mm.



<b>Size:</b> 2 x 1.5 Litre Pack	<b>Yield:</b> Approx 3 Litres
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### Conbextra EPR

Epoxy resin free-flow grout for gap thicknesses from 10 to 120mm.



<b>Conbextra EPR</b>	<b>Sizes:</b> 8 Litre Pack 16 Litre Pack
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### Conbextra GP

General purpose non-shrink cementitious grout for gap thicknesses 10 to 75mm. Recommended applications at flowable consistency include stanchion base plates, bolt pockets and void filling. At trowellable consistency it is recommended for bedding load bearing components.



<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 13 Litres
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### Conbextra HF

High flow non-shrink cementitious grout for gap thicknesses 10 to 100mm. Recommended applications include large stanchion baseplates, joints between pre-cast concrete panels, pumped grouting applications, grouting applications where pouring access is restricted.



<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 13.5 Litres
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### Conbextra TS

Non-shrink cementitious grout for thick section grouting of thicknesses 75 to 500mm. It is ideally suited to thick section grouting as it contains aggregates that reduce exothermic heat generation and risk of thermal cracking common with gap thicknesses in excess of 100mm.



<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 12 Litres
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### Conbextra UW

Non-shrink cementitious grout for underwater installations.



<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 14.5 Litres
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### Five Star Grout



General-purpose, shrinkage compensated, cementitious grout for dry packing, grouting, bolt fixing and bedding of machinery. Five Star Grout is designed primarily as a flowing grout but can also be used at a trowellable or dry pack consistency. It can be applied in thicknesses from 10 to 100mm and is suitable for use such as under stanchion plates and machinery (static loads only), grouting bearings, precast units, floors etc., fixing anchor bolts, balustrades, crash barriers, starter bars, underpinning and void filling.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 14 Litres
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### Five Star Grout SP



Five Star Grout SP is a special performance, higher flow version of the standard grout. It can be applied in thicknesses from 10 to 50mm. It has superior properties and complies with HA Spec 2601.4 for use in bridge bearings.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 14 Litres
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### Five Star Grout Fast Set



Rapid-setting, shrinkage-compensated cementitious grout. Extensively used within the London Underground.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 14 Litres
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### weber.cem 104 mortar



A two-component cement based polymer modified and fibre reinforced mortar specially formulated for use in manhole installations. Complies with the performance requirements of Highways Agency Design manual for Roads and Bridges, DRMB, HA104/2 Mortars for Bedding of Ironwork.

<b>Size:</b> 20kg Bag, 2.5 Litre Bottle	<b>Yield:</b> Approx 10 Litres
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### weber.cem duct grout



High-performance cementitious grout with excellent pumping and flow properties for grouting post-tensioned tendons. Highways Agency – DTp Specification for highway works for special grouts in bonded post-tensioned structures.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 16 Litres
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### weber.cem grout

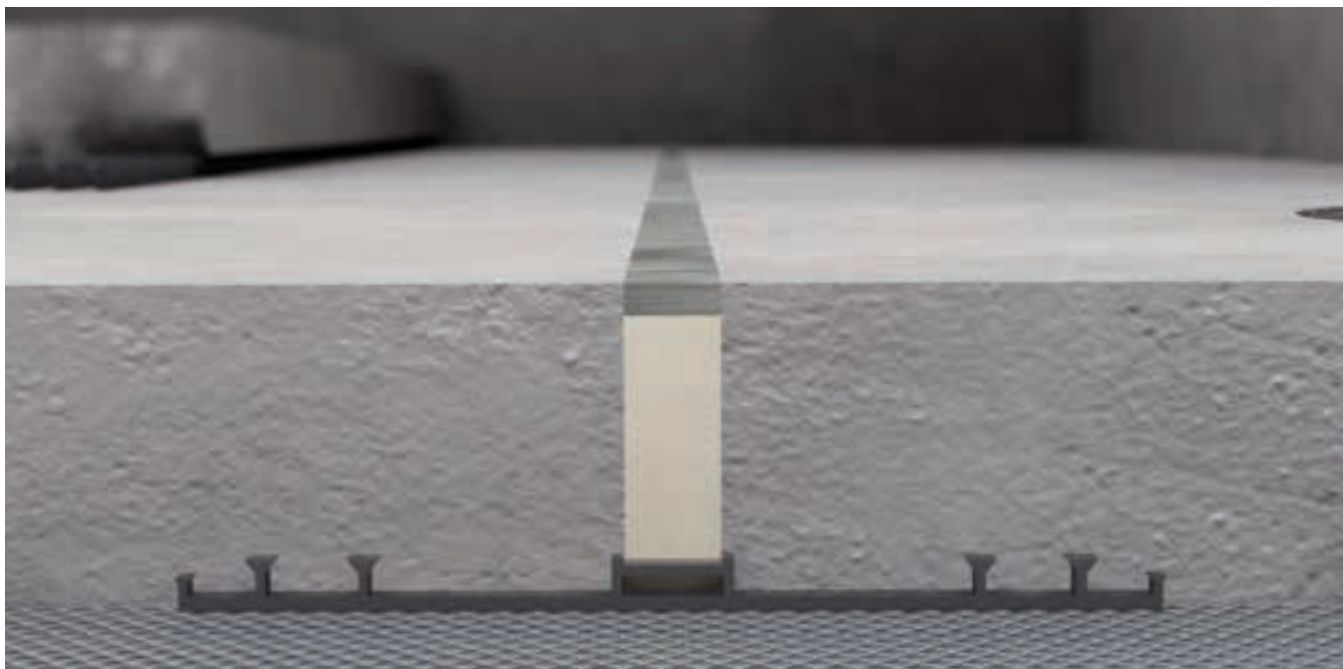


General-purpose, economical non-shrink cementitious grout. weber.cem grout is a premixed non-shrink cementitious grout developed for applications where an effective grout with adequate flow and strength is required. It is designed primarily as a pourable grout but can also be used at a plastic or dry pack consistency. This grout can be pumped or poured and can be applied in thicknesses ranging from 10 to 100mm. It can be used for many general purposes.

<b>Size:</b> 25kg Bag	<b>Yield:</b> Approx 13 Litres
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Technical Data Sheets, Material Safety Data Sheets, Installation Guides and Advice are available on request.

# EXPANSION JOINT FILLERS



We provide a range of fillerboards to suit any construction requirement, including brickwork, isolation and perimeter expansion joints; for water retaining structures and where there is trafficked hardstanding, as well as for sewage treatment structures.

## **Fibre Board**

Fibre board is a low cost, general purpose joint filler consisting of compressed wood fibre material, impregnated with bitumen emulsion. It complies with DOE (previously MoPRV) General Specification No. 201, Clause 606, and ASTM D. 1751. Fibre board is used as a general purpose expansion joint filler in non critical joints in concrete slab and brick wall construction. Available in both sheets and cut strips.

## **Polyjoint HD**

Polyjoint HD is a specially formulated high performance non absorbent, rot proof, closed cell cross linked polyethylene foam joint filler supplied in sheets or cut strips as required. It is recommended for use in expansion joints in water retaining and water excluding structures, floor slab construction, bridge joints and road expansion joints. Can be supplied in cut strips to suit differing slab or wall thickness with an undercut on one edge to form a sealant void former. Polyjoint HD is also ideal to be used in heavy trafficked areas.

## **Polyjoint**

Polyjoint is a closed cell expanded polyethylene foam, supplied in sheet form or cut to slab depth or wall thickness as required.

Robust, non-absorbant with excellent recoverability of 100% from 50% compression, low load transfer, non extruding and resistant to attack by most acids and alkalis.

Polyjoint is used in concrete slab construction and brickwork joints. Supplied in either sheet form or standard widths, pre-cut to depth for controlled void formation and easy removal.

## **Bitumen Bonded Cork**

Bitumen Bonded Cork fillerboard consists of granulated cork, premixed and securely bonded together with a hot bituminous mixture, evenly formed between two sheets of heavy asphalt-saturated felt paper. Bitumen Bonded Cork fillerboard is highly resilient, water resistant, and can be easily handled without breakage. It is non-extruding, rot proof, with a recovery rate of over 80% following 50% compression, and is highly resistant to insect, fungal and bacterial attack.

Bitubond Cork Expansion joint filler is recommended for use in concrete paved areas where heavy trafficking is expected.

**Expansion joint fillers are available in a wide range of sizes and thicknesses rolls, sheet and strips.**

**Please enquire for specific sizes of each product.**



# SLIP MEMBRANE



## Uses

Heavy Duty Slip Membrane is designed for use in sliding joints in reinforced concrete structures where load bearing characteristics are present, and low friction resistance is required. The strip is used in two layers to form a load bearing, low friction sliding joint.

## Description

Slip membrane comprises of a tough, dense sheet of specially formulated polyethylene having a low friction surface.



**Thickness:** 2mm

**Roll Length:** 25m

**Widths:** 150mm, 200mm, 300mm other sizes available up to 800mm



**Thickness:** 1.5mm

**Widths:** 300mm

Technical Data Sheets, Material Safety Data Sheets, Installation Guides and Advice are available on request.

# JOINT SEALANTS



Gun Application



Pour Application

## One Part Sealants



### Uraflex One Part Polyurethane



Uraflex is a high movement elastomeric sealant supplied in 600cc foil containers ready for immediate use. It has been tested for use in contact with drinking water and has excellent adhesion properties when used in conjunction with PU Primer 100. Uraflex should be used to seal expansion, contraction and construction joints in concrete reservoirs, water treatment works, pumping stations, sewage treatment works, canals and joints in brick and block construction.

#### Uraflex System:

Uraflex One Part Polyurethane	Size:	600cc foil pack
Primer PU 100	Size:	1ltr can
Barrel Gun	Size:	600cc



### Thioflex One



Thioflex One is a one part, gun applied, moisture activated, polysulphide sealant. Thioflex One is ideal for sealing joints in window and door frame surrounds and as a capping for beaded glazing systems. It can also be used for sealing joints in external walls and cladding.

Thioflex One is a one part polysulphide joint sealant which, on exposure to atmospheric moisture, cures to form a flexible rubber seal.

#### Thioflex One System:

Thioflex One	Size:	380ml cartridge
Primer 7	Size:	50ml pack
Application Gun	Size:	380ml

## Two Part Sealants



### Coldseal 200-90



Coldseal 200-90 is a two part, modified polyurethane, cold applied sealant for sealing joints in concrete paved areas, roads, bridge decks, airfield runways and warehouses. It is capable of accommodating above average movement, and severe climatic conditions. Coldseal 200-90 is highly adherent to most materials commonly used in construction. It is available in pouring grade only. Coldseal 200-90 has been specifically developed for sealing contraction and expansion joints in internal and external concrete slabs where resistance to attack by fuel and oils is required.

#### Coldseal 200-90 System:

Coldseal 200-90	Size:	5ltr can
Primer PU	Size:	1ltr can
Mixing Paddle		



### Colpor 200PF



Colpor 200PF is for the sealing and maintenance of joints in concrete roads, concrete runways and hard standings. Colpor 200PF is particularly suitable for sealing areas where fuel and oil spillage might occur such as aircraft fuelling areas, oil terminals, garage forecourts, parking and cargo areas.

#### Colpor 200PF System:

Colpor 200PF	Size:	5ltr can
Primer	Size:	0.5ltr can
Mixing Paddle		

### Thioflex 600



For sealing movement joints in building and civil engineering structures, including superstructures, floors, basements and subways.

Thioflex 600 is available in gun and pouring grades. The gun grade is ideal for general application and particularly recommended for use in high-rise buildings and other applications where access for subsequent maintenance will be difficult and the risk of early movement failure must be minimized. It is also suitable for sealing joints in brickwork, retaining walls, basements and subways.

Thioflex 600 pouring grade is recommended for initial sealing of expansion joints and stress relief joints in floors and sealing other horizontal surfaces.

Thioflex 600 Pouring Grade	Size:	5ltr can
Thioflex Primer	Size:	0.5ltr can
Mixing Paddle		
Follower Plate (for Gun Grade)		
Applicator Gun (for Gun Grade)		
Gun Grade	Size:	2.5ltr

Technical Data Sheets, Material Safety Data Sheets, Installation Guides and Advice are available on request.

# ANCILLARIES

In addition to the wide range of waterproofing products, membranes, coatings and repair materials, RFA-TECH supply the necessary equipment for the application of these materials. The range covers items from various brushes and rollers to more specialist equipment such as airless spray systems for the application of cementitious coatings. Please contact us and we will be happy to provide advice on the correct methods of application for each product.

## Brushes



We feature a full range of specialist and general brushes for application of liquid coatings such as liquid bitumen or cementitious coatings. These brushes are available in a range of sizes.

Brushes	Quantity: 1
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## Roller & Tray



For application of liquid coatings on large areas the roller is often the preferred method for the fastest application.

Roller & Tray	Quantity: 1
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## Bucket



Plastic bucket with pouring lip and handle with many uses such as for the mixing of coatings or pouring of grouts.

Bucket	Quantity: 1
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## Skeleton Gun



For use with all types of 310ml cartridge such as De Neef Swellseal Mastic and Fosroc SWX.

Skeleton Gun	Quantity: 1
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## Barrel Gun



Used with 600cc 'sausage' cartridges or gun grade sealants.

Barrel Gun	Quantity: 1
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## Wire Brush



Used for 'roughing' up concrete surfaces to allow correct bond of adhesives and hydrophilic strips. Also used for general cleaning of metal items.

Wire Brush	Quantity: 1
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### Trowel

A range of pointed, serrated and straight edge metal trowels in various sizes for precision application of products.

Trowel	Quantity: 1
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### Hand Float

Polyurethane and wooden hand floats for the finishing of concrete surfaces. Please contact us so we can recommend the most suitable float for your finish requirements.

Hand Float	Quantity: 1
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### Contact Adhesive

Multiuse adhesive which can be used for the gluing of hydrophilic strips to concrete.

Contact Adhesive	Quantity: 1
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### Jointing Adhesive

High strength cyanoacrylate adhesive used to join the ends of hydrophilic strips at roll ends or corners.

Jointing Adhesive	Quantity: 1
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## TERMS AND CONDITIONS



### Terms and Conditions of sale of RFA-TECH Limited ("the company")

**Carriage Free Delivery** on all orders with the following exceptions:-

- A. Orders less than £400 in value are subject to a £30 handling & carriage charge.
- B. Orders dispatched at customers request for delivery within 24 hours, other than London Postal districts, carriage at extra cost.
- C. Orders for delivery to Northern Scotland or those that involve a journey over water, carriage at extra cost.

**General Terms.** All prices are exclusive of VAT.

The current price list replaces all other lists and quotations issued.

A minimum order of £30 prevails.

All sales subject to our standard terms and conditions of sale.

#### 1. General

Except to the extent that such provisions of the Sale of Goods Act 1979 are non-excludible these conditions together with such provisions of the said Act are not inconsistent herewith shall apply to all sales by RFA-TECH (the company) and shall form the basis of a contract between the company and the customer. No variation of these conditions shall be effective unless made in writing and signed by a director of the company. Unless otherwise agreed in writing these conditions shall prevail over any other terms and conditions whether in writing or implied by Law or by trade, custom, practice or previous course of dealing and any such inconsistent terms and hereby expressly excluded. This agreement will be governed and construed in accordance with the laws of England and Wales. The parties' hereto submit to the exclusive jurisdiction of the courts of England and Wales.

#### 2. Price

All prices quoted are based on costs ruling at the date of quotation, (excluding VAT). If there are any alterations to these costs the Company reserves the right to alter the prices and will notify the customer in writing thereof, the issuing of a new price list is by the Company shall be deemed to be such notice. Thereafter the customer shall have the right to cancel the order on written notice to that effect being given to the company within seven days of the written notice giving the alteration in price.

#### 3. Payment

(a) In the absence of any concession to the contrary by the Company from time to time accounts are due and payable in full within 30 days of the end of the month in which the invoice was dated (due date) of the respective invoice.

(b) If the customer fails to pay any amount due on the due date:-

- (i) The company has the right to cancel any contract made with the customer and/or suspend or continue delivery of goods and materials at the company's option without prejudice to the company's right to recover damages for any loss sustained by it.
- (ii) The outstanding sum shall carry interest from the due date at a rate of 4% above Barclays Bank plc base rate from time to time and for the time being in force per month until settlement. A part of a month being treated as a whole month for the purposes of calculating interest.
- (iii) The whole balance of the price of this contract and all other contracts invoiced shall immediately become due and payable together with interest.

#### 4. Suitability of Goods

The customer is responsible for the suitability of the goods and materials bought. No warranty is given nor shall any warranty condition be implied that the goods are reasonable fit and suitable in size shape capacity quality or otherwise for the purpose for which they are bought and the Company shall not be under any liability whatsoever due to any goods being unfit or unsuitable.

#### 5. Notification of Loss, Shortages, Damage in Transit

(a) Any damage shortage or pilferage in transit to goods must be notified in writing to the Company within seven days of delivery all damage, shortage or pilferage to goods

apparent at the time of delivery must be noted on the carriers delivery note at the time of delivery otherwise the Company cannot consider accepting liability.

(b) Non-delivery of goods must be notified in writing to the Company within seven days of our invoice relating thereto otherwise liability by the Company cannot be considered.

#### 6. Defects

If any goods show defects arising solely from faulty materials and/or workmanship, the Company's liability shall be limited to replacing such goods, but no such liability shall arise unless notification of such defects is received WITHIN SEVEN DAYS from receipt of the goods and the alleged defective goods are returned to the Company. In no circumstances shall the Company be liable for any consequential loss howsoever caused.

#### 7. Sale by Sample and/or Description

Unless the contract specifically provides for a sale by sample and/or description, the submission of a sample and/or the giving of a description shall not be held to indicate the sale is a sale by sample and/or description and any warranty expressed or implied by law to the contrary effect is hereby excluded. Where the contract specifically provides for a sale by sample and/or description regard will be given to normal variations arising from the nature of the materials from which the goods are manufactured. Any variation required at a future date must be subject to further negotiations.

#### 8. Cancellation

Contracts and orders may be cancelled by customers with the sanction of a Director of the Company, which sanction is in the Company's sole discretion and can only be given upon payment of such sum by way of compensation as specified by the Company, and such sum by way of compensation would include payment in respect of loss of profits.

#### 9. Retention of Title

(a) The title to the property in the goods comprised in an order shall not pass to the customer until amounts for all goods comprised in that order and all other outstanding amounts due to us in respect of any other transactions between the parties then outstanding has been paid in full not withstanding that the goods may have been delivered to the customer.

(b) Notwithstanding the above paragraph the goods shall be at risk of the customer from the time of delivery to or collection by the customer and the customer shall take all necessary steps to insure the goods for their full invoice value.

(c) The customer shall separately store the goods and identify the goods as belonging to the Company until the relevant invoice has been settled in full. The customer is prohibited from incorporating the goods or using the same until such settlement.

(d) The customer may sell the goods to a third party in the ordinary course of the customer's business but only under the following conditions:-

- (i) Only at such a price that would enable the customer to repay the amount due to the Company under (a) above.
- (ii) The customer shall in every case make it a condition that the title in the goods shall not pass to the third party until the third party has paid to the customer the amount in paragraph (d)) above.
- (iii) Immediately upon such sub-sale the customer shall notify the Company of the name and address of the third party and the Company shall be entitled to inform the third party of our interest in the goods.

(iv) The proceeds of any sub-sale shall be held by the customer on trust for the Company and shall be paid into a separate Bank Account specifically designed as being a trust account for the Company and such time as payment for the goods is made in full to the Company.

(e) Save as above, the customer shall not dispose of the goods in any way or create or allow to be created any rights in the goods in favour of the third party.

(f) Should the customer be in arrears with any payment to the Company, the Company is hereby granted an implied license

to enter the customer's premises where the goods are then being kept or stored in order to re-possess the goods and the cost of any such re-possession shall be borne by the customer. The Company shall not be responsible for any damage howsoever caused arising out of the re-possession of the goods under this clause.

#### 10. Limitation of Liability

In all cases the Company's liability in any claim is limited to the amount covered by the Company's insurance. The Company cannot accept liability for any loss or damage caused to the customer by reason of the Company's products being found to involve the infringement of any third party's patent or patents.

#### 11. Termination

The Company reserves the right to terminate the order upon giving reasonable written notice to the customer. The Company further reserves the right to terminate this order if sums due and payable by the customer under previous orders remains outstanding.

#### 12. Insolvency

This clause applied if :-

12.1.1 The customer makes any voluntary arrangement with the creditors or becomes subject to an administration order (being an individual or firm) becomes bankrupt or (being a Company) goes into liquidation otherwise than for the purposes of amalgamation or reconstruction or

12.1.2 An encumbrancer takes possession or a receiver is appointed of any of the property or assets of the Customer or

12.1.3 The customer ceases or threatens to cease to carry on business or

12.1.4 The Company reasonably apprehends that any of the events mentioned above is about to occur in relation to the customer

12.2 If 12.1 above applies then without prejudice to any other rights of the Company.

12.2.1 The Company shall be entitled to cancel the contract and

12.2.2 Any payment due but not paid (not withstanding that the due date may not have arisen) shall become immediately due and payable not withstanding any previous agreement or arrangement to the contrary together with interest at the rate specified in 3(b) above

#### 13. Delivery

13.1 The Company shall make all reasonable efforts to meet quoted delivery dates, although such dates and times are not guaranteed.

13.2 The Company shall not be liable for any delay in delivery due to factors beyond the Company's control, which shall include without prejudice to generality of the foregoing. Acts of God, explosion, flood, tempest, fire, accident, war or threat of war, sabotage insurrection civil disturbance or measures of any kind on the part of any Government or Parliamentary Authority. Strikes lock out or any other industrial actions or trade disputes (whether involving the Company's employees or third parties) power failure, shortage of fuels or materials or breakdown in machinery. The Company shall endeavour to fulfil its obligations as soon as is reasonably practicable taking into account the relevant aforementioned event.

#### 14. Returned Goods

Goods may be returned by the customer with the prior agreement of the Company, but will be subject to a 25% rehandling charge, or a minimum charge of 20.00(GBP), whichever is the greater.

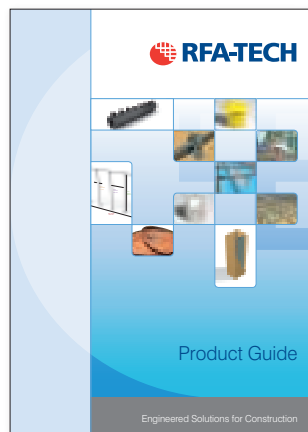


## Further Information

RFA-TECH specialise in and supply a wide range of products for reinforced concrete and other types of construction. We have a further range of literature to accompany these other product ranges of which printed copies are available on request. These publications are also available to download from our website [www.rfa-tech.co.uk](http://www.rfa-tech.co.uk)



Technical Solutions



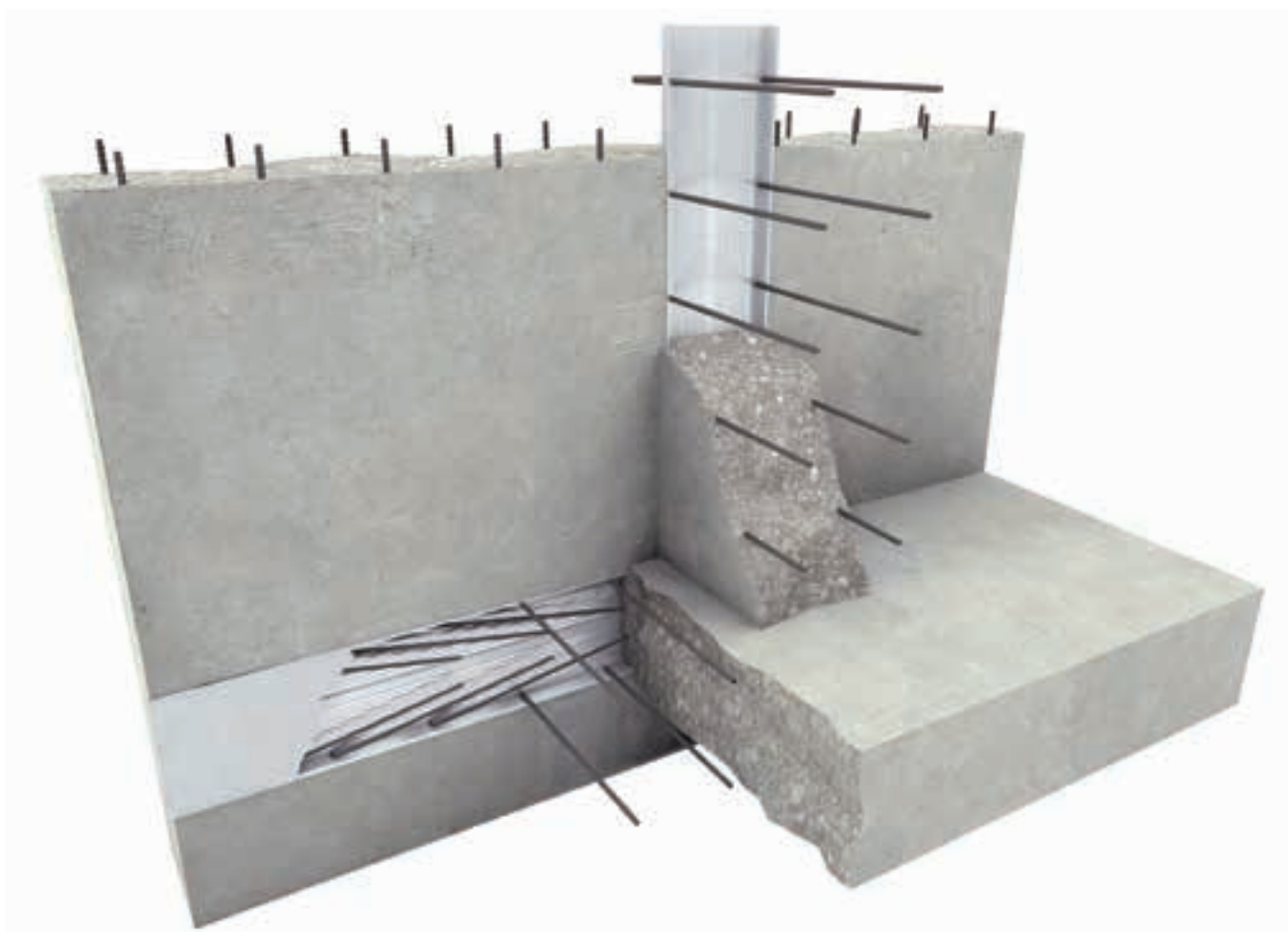
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**Design & Sales**

Whaley Road, Barugh, Barnsley,  
South Yorkshire S75 1HT

**Telephone:** 0870 011 2881

**Fax:** 0870 011 2882

**Email:** [sales@rfa-tech.co.uk](mailto:sales@rfa-tech.co.uk)

**Manufacturing**

710 Brightside Lane, Sheffield,  
South Yorkshire S9 2SR

[www.rfa-tech.co.uk](http://www.rfa-tech.co.uk)