

Groundworking

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SIG DISTRIBUTION

WELCOME

SIG Distribution pride themselves on their reliable service and specialist knowledge in all stages of construction, and their engagement with customers to ensure projects are completed to the highest standards.

As one of the leading distributors of specialist building materials, we apply these principles to complete every project with diligence, focusing on the core construction markets: Insulation, Interiors, Construction Accessories and HVAC, ensuring exemplary customer service for all our customers from the initial design meeting, until completion of the final development.

Adopting a unique 'Project Approach', we take measures to ensure materials chosen are well suited for each build and through expertise and industry knowledge can work with you to value engineer your project, and with access to over 250,000 products from leading manufacturers we ensure our customers get what they need when they need it.

Construction Accessories

At SIG Distribution, we have access to an unrivalled range of specialist construction products that are fundamental to the early stages of all construction builds, including materials for reinforcement and formwork, groundwork engineering, waterproofing, masonry and concrete repair and protection.

Working with you, we'll tailor our comprehensive range of products and solutions to meet your specific project requirements and, if needed, apply value engineering.

We pride ourselves on offering you an unrivalled range of construction accessories, a nationwide coverage and next day delivery with tracking capability on selected ranges.

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REINFORCEMENT AND FORMWORK

Reinforcement and formwork solutions are vital at the initial stage of development, maximising structural integrity and minimising exposure to risks.

A range of solutions are available which include tailoring the products and the installation process to your unique specifications, limiting the sites exposure to damage as much as possible.

ALTI Range...

The ALTI range consists of high quality and high performance building reinforcement and accessory products which offer a cost effective solution to a wide range of construction applications.

The range includes: ALTIMESH, ALTIFORM, ALTISPACER, ALTITRAC, ALTIWIRE, ALTIFILLER, ALTIBAR, ALTFLEECE, ALTISHIELD and ALTICLOSER

Product Spotlight...

- **Shear Load Connectors:** Concrete buildings are created with expansion and contraction joints to allow movement to occur. Dowels are used to transfer shear loads across these joints.
- **Reinforcement Continuity Systems:** We can supply a variety of products which provide continuity of reinforcement at construction joints in concrete, these include: KSN anchors, KSN anchor boxes, CB coupler boxes, CS coupler strips, starter bar systems and eazistrip rebend systems.
- **Insulated Balcony Connectors:** The connectors we supply minimise heat loss at balcony positions while maintaining structural integrity. As a critical structural component, they transfer movement, shear, tension and compression forces.
- **Reinforcement Bar Couplers:** Lapped joints are not always the most suitable means of joining reinforcing bars. Reinforcement bar couplers can make the design and construction of reinforced concrete simpler and reduce the amount of reinforcement required.

Column Formers

These provide high quality finishes for the columns cast in reinforced concrete. Column formers can be designed to fit the requirements of each project, including size, shape and finish.

Rebar

Rebars act as a tension device to strengthen and support reinforced concrete, effectively reducing decay and deterioration.

We also supply products for structural concrete that act as a joint such as DSDs or MBT Couplers.

Tying Wire

Tying wires are used when applying reinforcement and formwork solutions to secure different specialist products together. This is particularly effective when positioning reinforcement, whilst being highly resistant to corrosion. Tying wire dramatically increases the durability of reinforcement products as maintenance and repair requirements are decreased.

Reinforcement Mesh

Steel reinforced mesh enhances the durability of concrete foundations by allowing the concrete to flex around it without cracking or splitting. We can supply mesh in a number of different sizes to suit your project's specific needs, ensuring the foundations are as structurally viable as possible.

Mesh Spacers

Mesh spacers maximise support for reinforcement mesh, whilst minimising the damage to other products used. This provides concrete slabs with further reinforcement, providing a quick and simple method to strengthen any mesh used.

Formwork Chemicals

These are available for a range of specialist applications within the construction process. We provide a range of chemicals that are suited for different purposes, which are especially effective in protecting the site, including: chemical release agents, mould oils, surface retarders, repair compounds, formwork coatings, curing compounds, sealing strips and many more.

MASONRY

We have a vast experience in supplying a comprehensive range of products for the brickwork and blockwork requirement on site. We offer everything other than the bricks and blocks themselves.

Our range includes off-the-shelf support systems, channel, brick reinforcement, wall ties, damp-proof course and ventilation which are all widely available on a next day service.

Product Spotlight...

- **Brick Reinforcement:** This increases the structural integrity of brickwork. We stock brick ladder that has proven success from tried and tested brands.
- **Damp-Proof Course:** We have a range of damp-proof courses along with all the required accessories needed for effective installation, these include joint supports, fixing strips and pins, adhesives, tapes and mastics.
- **Brickwork Protection:** SIG supply Alti-Fleece blankets, featuring a unique patented design, as well as hessian blankets. These are effective solutions to protect brickwork from water staining and force from falling objects.
- **Surface Fixed Channel:** A restraint system that is designed to tie masonry to steel, timber or concrete frames through a layer of insulation. These are available in multiple lengths that can be cut on-site to suit the specifications of each contract. Screws are also supplied in a number of lengths and thicknesses to help with ease of installation.

Wind Posts

Wind posts are tailored and fitted as a precise solution for every construction, to allow them to work as efficiently as possible. These span vertically and are restrained by masonry brickwork to provide greater resistance from wind pressure, providing the construction with additional strength.

Cavity Trays

Cavity trays provide a damp-proof course through the cavity of masonry walls to stop water infiltration creating hazards such as damp. SIG provide 3 types that are cut to size to create a precise solution: lintel cavity trays, general purpose cavity trays and parapet wall cavity trays, which are selected and tailored to each project.

Ties and Restraints

Wall ties and restraint fixings provide masonry panels with stability. These include housing and commercial wall ties, ties that help provide low thermal conductivity and acoustic wall ties. These are supplied in many lengths and types, and can be used on a variety of masonry types including brickwork, blockwork and stonework.

Masonry Support Systems

At SIG we provide all the relevant products to ensure installation is completed effectively, and with ease. These can be designed and manufactured to support modular brick-faced units, where brick slips are adhered to either steelwork or precast concrete. Masonry support systems are tailored to suit each contract, based on the cavity size and unfactored masonry load to be carried.

GROUNDWORK ENGINEERING

As the leading provider of geotechnical solutions within the construction industry, SIG provide materials to create the most cost-effective and high performing solution on site.

We have supplied specialist products to the construction industry for many years, aiding separation, reinforcement, drainage and erosion control. We also supply gas membrane systems which can stop harmful gases from leaking into a build, providing safety for occupants.

Product Spotlight...

- **Gabion Baskets:** An effective solution for earth stabilisation issues. These are used in a range of applications including retaining walls, erosion control, scour prevention, landscaping and for coastal protection.
- **Erosion Control and Matting:** We have non-biodegradable and biodegradable erosion control matting. This acts as protection to the slope, preventing erosion and loss of expensive soils.
- **Envirotrak:** Envirotrak is a cellular lattice paving system which allows the fast and efficient application of permanent ground reinforcement and stabilisation.
- **Root and Weed Barriers:** We provide a variety of high performance root and weed barriers. With both permeable and impermeable options, a long lasting, tailored solution is provided.
- **Geocomposite Drainage:** A range of geocomposite layers are available for a range of applications. Geoflow is made up of a high strength, high flow cusped HDPE core which forms a void to drain or vent.



Geogrids

Soils have a tendency to pull apart under tension on the construction site, and our range of geogrids, both biaxial and uniaxial act as an effective reinforcement solution. As a material that is versatile and strong in tension they can stabilise the ground from heavy loads, increasing the durability of the site and ultimately reducing maintenance costs.

Gas Systems / Membranes

Gas systems and membranes are effective solutions to prevent the ingress of harmful gases from accessing a construction, which threatens the safety of those occupying a build. We supply these in a range of different materials and in multiple thicknesses, allowing us to tailor these to the specifications of each contract.

Geotextiles

Geotextile solutions are available to restore the quality of soils that may have been damaged during construction. With access to a range of woven, needle punched and heat bonded textiles, the best solution for your project is selected based on the application, which could include: separation, filtration, drainage, reinforcement, sealing and protection. We draw upon our team with informed specialist knowledge to allow us to select and provide the most efficient solution for your contract.

WATERPROOFING

Waterproofing any site is a pivotal stage of the build, preventing water damage to the foundations, which could cause harm to the construction should the problem persist.

BS8102:2009 is the code of practice for protection of below ground structures against water from the ground.

The British Standard gives information on what waterproofing methods are available and what specifications the various products should meet.

The three types of waterproofing covered under BS8102:2009 are:

- **Type A:** Barrier system applied internally or externally (membrane, cementitious etc.)
- **Type B:** Water tight concrete
- **Type C:** Cavity drain

BS8102:2009 also states that if the risk is high, two methods of protection should be considered (dual system approach) and all waterproofing designs should consider maintainability and reparability. SIG's core waterproofing manufacturers all supply products that comply with the standards outlined in BS8102:2009 which makes them the safest products to use when waterproofing structures.

Product Spotlight...

- **Cementitious:** Cementitious waterproofing solutions are easy to mix and apply. These are often used in reparation projects and many of the solutions we supply can be spray or brush applied and offer rapid hardening, saving both time and money.
- **Liquid Applied:** Liquid applied solutions are effective in areas where traditional membranes would be difficult. These can be applied to surfaces by rolling, brushing and spraying, ensuring the waterproofing is continuous.

Post-Applied Membranes

These membranes are installed after the concrete pour to provide a watertight seal between the membrane and the concrete. So, even if damaged, water is unable to access a structure and damage the foundations. These membranes are available in a range of grades, to ensure they cater to every project and can work to their maximum efficiency.

Pre-Applied Membranes

These membranes are installed prior to the concrete pour to prevent the infiltration of groundwater. When the concrete is poured onto the membrane, a mechanical bond is formed preventing the likelihood of water ingress or water tracking.

The product itself is tough and highly durable, creating a resistant and long lasting solution for waterproofing.

Bentonite Membranes

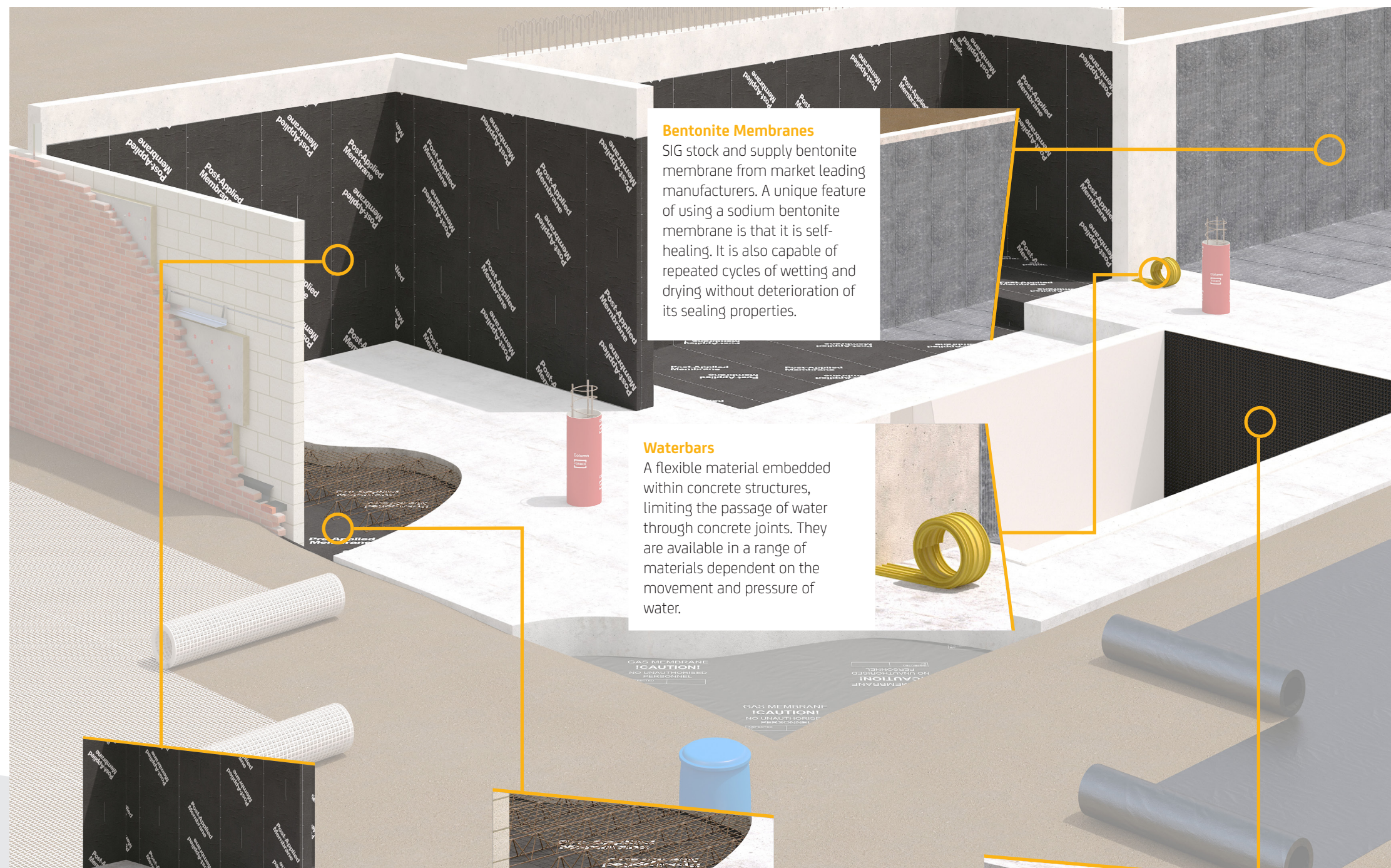
SIG stock and supply bentonite membrane from market leading manufacturers. A unique feature of using a sodium bentonite membrane is that it is self-healing. It is also capable of repeated cycles of wetting and drying without deterioration of its sealing properties.

Waterbars

A flexible material embedded within concrete structures, limiting the passage of water through concrete joints. They are available in a range of materials dependent on the movement and pressure of water.

Cavity Drainage Systems

Despite putting waterproofing systems in place, there is the possibility that water will still infiltrate the structure. Using a cavity drainage system to guide water away from the structure helps to comply with BS8102:2009 and the requirement to have a maintainable waterproofing system.



CONCRETE REPAIR AND PROTECTION

The deterioration of concrete is influenced by a number of physical, chemical and environmental factors. Concrete repair and protection products available through SIG from leading manufacturers all comply where necessary to the EN1504 European regulation for the protection and repair of concrete structures.

The structure and type of repair required will determine which product is most suitable from hand applied to spray repair mortars.

As well as having a wide range of products that will repair damaged concrete, SIG can also supply customers with products developed specifically to protect concrete from further damage once repaired.

Product Spotlight...

- **Hand Applied Repair Mortars:** Mortars applied by hand offer a more specific application, providing greater penetration properties, allowing them to fill hairline cracks and fill gaps deeper in the structure.
- **Spray Repair Mortars:** Spray mortars are particularly useful where concrete repairs need to be made within time constraints and over a large surface area.
- **Primers:** Using primers to prepare surfaces for repair mortars is essential to ensuring good adhesion of the repair material to the existing concrete. SIG select primers from a range of specialist brands to provide the most appropriate and effective one for the chosen repair mortar.
- **Fairing Coatings:** Fairing coatings are designed to be applied in thin layers, producing a fair faced appearance to concrete surfaces prior to receiving a decorative / protective coating. Surface imperfections up to 3mm in depth can be protected by these.

- **Resin Repair Mortars:** Effective in a range of applications, including reinforcing and restoring low strength cement, sand screeds, lining and waterproofing surfaces that may come into contact with food and drinking water.

Repair Mortars

Repair Mortars are an effective solution for concrete that has deteriorated, creating a smooth and level surface.

There are numerous repair mortars available via SIG from leading brands that are suited to different types of repair including: wall repairs, floor repairs and spray repair mortars for large scale repairs. The variety of repair mortars available ensures an effective solution to reinforce the structural integrity and visual appeal of concrete surfaces, this can be achieved regardless of the size of location or the repair required.

Protective Coatings

A range of protective coatings can be provided to suit a variety of applications, such as resistance from carbonation which could cause corrosion on reinforced steel. We can tailor solutions to work as effectively as possible, ensuring concrete remains in sound condition, reinforcing the durability of the structure.

