

Precision Grouting

Weber Technical Mortars for the Construction Industry

Technical • Engineered • Strength
A solution for every application

 **weber**
SAINT-GOBAIN

About Weber

As a recognised manufacturer and innovator of easy-to-apply products in the technical mortars, facades, flooring systems and tile-fixing markets, **Weber** is a leading player in the construction products industry.

The natural synergy between these specialist activities enables **Weber** to provide integrated solutions for a wide range of projects from building renovation and refurbishment to new building developments and major civil engineering.

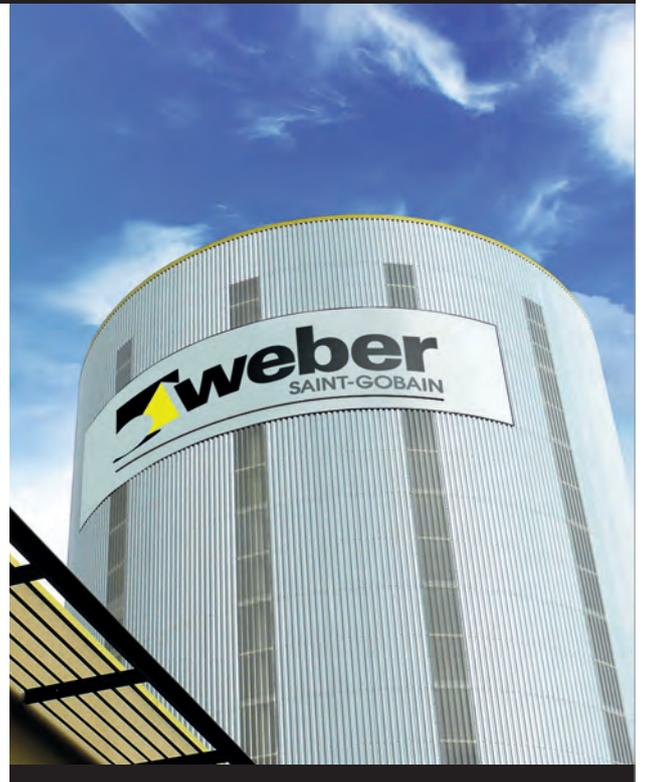
Weber does not sell only products but the complete solution which includes the services that go with the products; technical support and training. Based on its strong knowledge and experience of the market, the **Weber** training programmes meet the needs of its customers. **Weber** provides specifiers, developers and contractors across the board with substantial technical support, both before, during and after contract periods.

About Saint-Gobain

Weber is part of **Saint-Gobain**, one of the world's leading industrial groups with activities in construction products, flat glass and packaging, high performance materials and building distribution.

Saint-Gobain is an international group employing around 193,000 people in over 64 countries worldwide. Established in France in 1665, **Saint-Gobain** is one of the world's largest industrial groups, with an annual turnover of €43.1 billion.

Some of the UK and Ireland's most respected companies and brands in the construction sector are part of **Saint-Gobain**, including **British Gypsum**, **Glassolutions**, **Isover**, **PAM**, **Artex**, **Celotex**, **Ecophon** and **Pasquill**. Together these businesses offer an unrivalled range of products and innovative material solutions that give architects and designers the ability to respond to the latest trends, whilst meeting the most exacting performance and legislative standards.



Weber's Technical Mortar Range

Along with the range of Precision Grouting products covered in this guide, **Weber** also offer solutions to the Construction Market in the form of Concrete Repair and Protection, Bedding Mortars and Structural Strengthening...

Concrete Repair & Protection – Weber has a wide portfolio of products designed to facilitate repair and protection of concrete in most circumstances, ranging from hand placed materials for localised non-structural repairs, to flowable or spray solutions for mass structural replacement.

Bedding Mortars – Weber offers a range of materials for the bedding of components in the Highway, Airport and Marine market place. These products are designed for the fast installation of components and long lasting reinstatement.

Structural Strengthening – Upgrading of buildings, bridges and structural components through the use of Fibre Reinforced Polymer (FRP) technology where high tensile strength, lightweight fibres with proven durability are utilised in the structural strengthening of concrete, masonry, metallic and timber structures.

Precision Grouting

Equipment and machinery which have precise tolerances for alignment or require uniform support cannot be placed directly on finished concrete surfaces. Both the concrete surface and the machine base have irregularities which result in alignment difficulties and bearing load concentrations. For this reason, machine bases or soleplates are aligned and levelled by shimming or other means and the resulting space between the machine base and the foundation is filled with a load transfer material. The load transfer materials most frequently used are hydraulic cement and epoxy grouts.

After placement and hardening in the space between a machine or equipment base and the foundation, the grout is expected to perform one of the following functions:

1. Permanently maintain the original level and alignment of the machinery or equipment and transfer all loads to the foundation when shims and other temporary position devices are removed.
2. Provide lateral support or corrosion protection for shims which are designed to transfer all loads to the foundation. Some grouts are also required to provide sound deadening and a mechanism for reducing vibration. This can often be achieved by a composite system incorporating elastomeric bearings and a structural adhesive.

All products are CE marked where relevant. Declaration of Performance documentation (DoP's) are available online at www.netweber.co.uk or on request.

CE

Markets & Applications

There is extensive use of **Weber's** Precision Grouts within the civil engineering market. These high performance products can be used in any situation where accuracy in alignment is essential or where transfer of dynamic or static loads are required.

These include:

- **Bridges**
- **Highways**
- **Railways**
- **Theme Park Rides**
- **Building Structures**
- **Crane Rails**
- **Machine Bases**
- **Wind Farms**



Spinnaker Tower, Portsmouth.
weber.cem grout & Five Star Grout

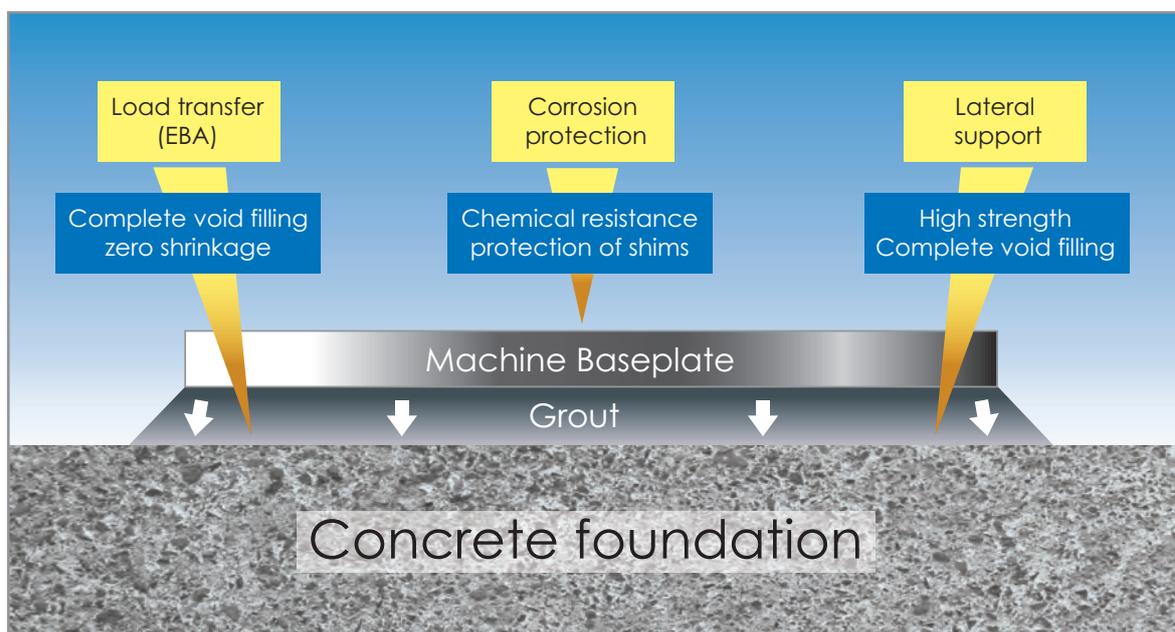
Requirements of a Grout

The most important requirement for a grout which is intended to transfer loads to the foundation, is for it to have volume change characteristics which result in complete and permanent filling of the space. Plain grout, consisting of cement, aggregate, and water, does not have those characteristics. Several other properties of the grout such as consistency, strength, chemical resistance, and compatibility with the operating environment are also important. However, these properties are obtained more easily than the necessary volume change characteristics.

For most applications, the space between the foundation and the machinery or equipment base can best be filled by pouring a grout into the void. A plain sand / cement grout with this consistency could be placed in the space and may develop adequate strength. However, after placement, the sand / cement grout will lose contact with the plate because of settlement, shrinkage and bleeding.

The result will be an incompletely filled space leaving the equipment resting primarily or completely on the shims or other alignment device. To maintain permanent contact with the plate, a grout must be formulated using special additives with cementitious or epoxy systems. These grouts have a high proven EBA (Effective Bearing Area), which is the actual area of contact under a bearing plate, free of air bubbles and voids.

Primary Functions of Bearing Grouts



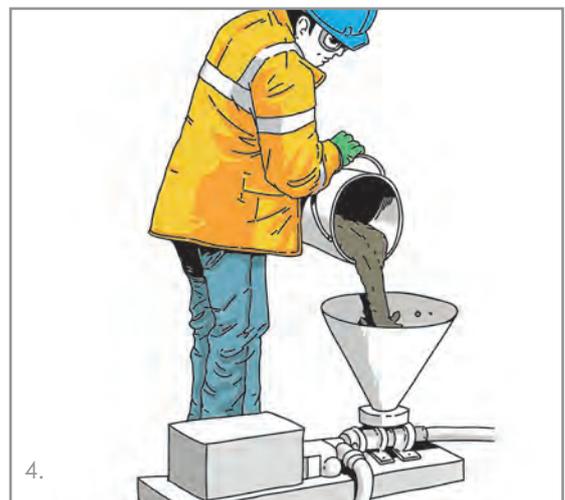
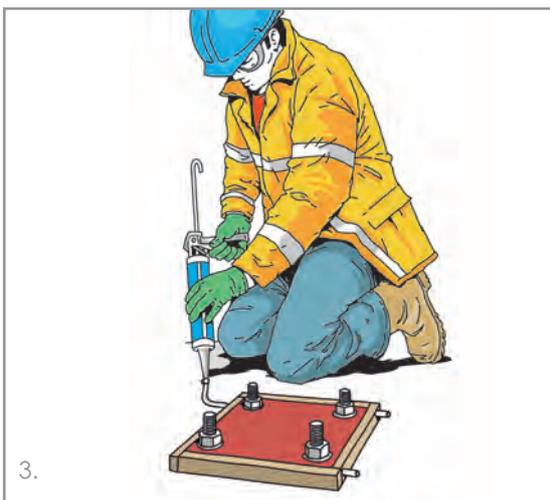
Application of Precision Grouts

There are four main methods used to grout baseplates:

1. Pouring from one open side of a shuttered baseplate
2. Pouring through a hopper or pipe down a drilled hole in the top of the baseplate
3. Where the gap is very narrow under small baseplates (up to 300 x 300mm), it is possible to inject grout through a standard mastic type of gun.

4. For larger baseplates it is better to use a pump to deliver adequate volumes of grout to the point of grouting. (For epoxy grouts, a peristaltic pump is used. For a cement grout a more conventional diaphragm pump is commonly used)

Where large areas need to be grouted, or where complex bases are involved, it is wise to design a method of introducing the grout to eliminate air entrapment under the baseplate.



How to Select a Grout

The choice of suitable material depends on the intended usage, accessibility, thickness of bed and the area to grout.

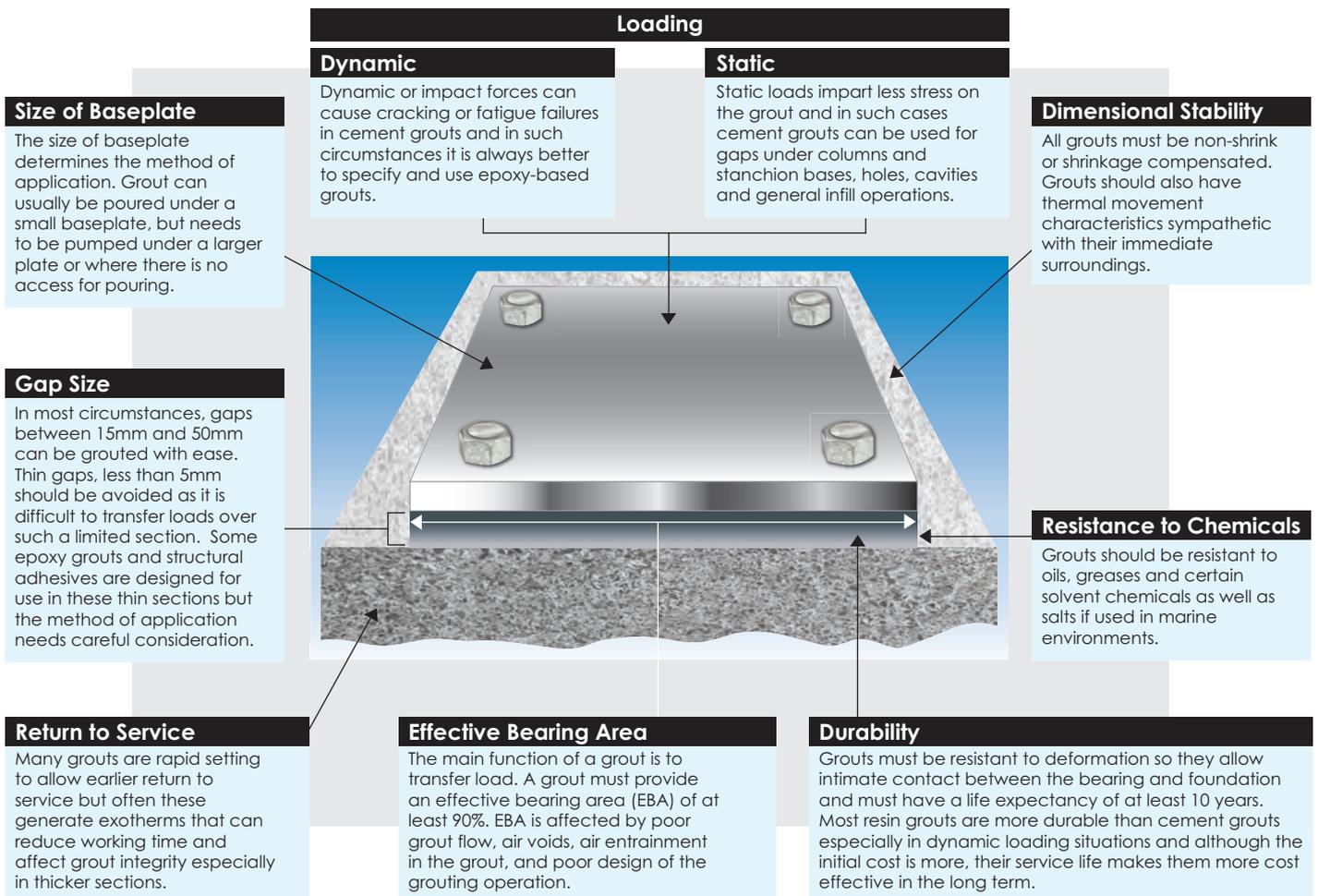
For dynamic loading: (e.g. motor, turbine or under heavy wheeled traffic - crane rails) - epoxy grout must be used.

For static applications: (e.g. such as under stanchion bases, columns etc.) - both epoxy and cement grouts can be used, but cementitious grouts are more popular because they are perceived as being more cost-effective.

- **Cementitious Grouts** - provide resistance to salt and sulphate exposure and can withstand high operating temperatures.

- **Epoxy Grouts** - provide better resistance to impact, vibration and chemicals and higher compressive, flexural, tensile and bond strengths.

A precision grout is a liquid mortar. The main function of a precision grout is the effective transfer of load from the structure or machine to the foundation. In order to enable this, the grout must provide adequate permanent bearing, be non-shrink and have sufficient strength to resist any loading imposed upon it. To get the grout into place, often into small gaps or confined areas, the grout must be sufficiently fluid so it can flow or be pumped, but it must be stable and not be prone to segregation.

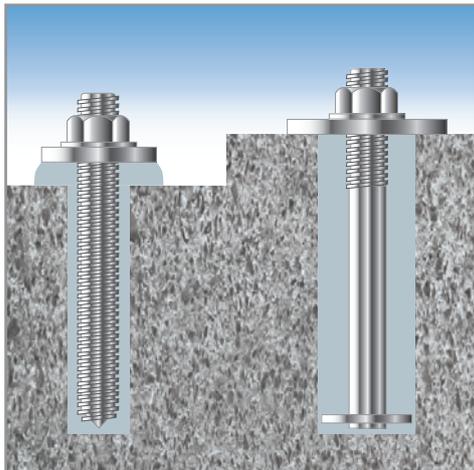


Anchoring & Fixing

Complementary to the support of baseplates by the **Weber** Precision Grout range are grouted anchors and structural adhesives.

Anchor Grout

A bonded or grouted anchor is fixed by the mechanical key between the bolt or bar, the anchor grout and the drilled hole. The primary mechanical key is created by drilling a rough sided hole using a rotary percussion drill, secondary anchorage is achieved by the bond between grout and anchor, meaning loads or tensile forces are transmitted through the grout to the substrate.



When a tensile force or 'pull-out' load is applied to the bolt or bar, it creates a shear force in the substrate. As most substrates are

relatively weak in shear and tension, it is normally the strength of the substrate and the depth of the anchor that determines the ultimate strength of the bonded or grouted anchorage. The choice of the right anchor grout depends upon the application and pull-out loads to be applied.

Structural Adhesive

Glued segmental construction involves the use of a high-strength epoxy adhesive to bond pre-cast elements together. Segmental bridge construction is a popular technique which speeds up construction of viaduct structures because it avoids the expense and trouble of formwork supports.

In addition to reduced construction time and cost, structural adhesives offer benefits in the form of:

- High bond between the concrete surfaces to transmit compressive, tensile and other shear forces
- Early strengths over a wide temperature range
- Waterproof joints along the cross-section to which they are applied

High-performance epoxy adhesives and resins are also used for the application of composite strengthening plates and wraps.

For more information please visit www.netweber.co.uk, call 08703 330070 or email solutions@netweber.co.uk



Deep Bay Link North Segmental Bridge Project, Hong Kong



Products



Jubilee Line Underground Train Maintenance Depot. **weber.tec EP pourable grout**

weber.cem grout

weber.cem grout

General-purpose, 'non-shrink' cementitious grout

weber.cem grout is a premixed, non-shrink cementitious grout developed for applications where a cost-efficient 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.

Uses

- Grouting under stanchions and baseplates
- General void filling, under paving, in rubble walls etc
- Fixing balustrades, starter bars, barriers
- Underpinning

Features & Benefits

- General purpose grout suitable for use over a temperature range of between 5°C and 25°C
- Can be pumped, poured, trowelled or 'dry-packed' for maximum versatility
- Good flow properties, suitable for large baseplates
- Can be applied in thicknesses ranging from 10mm to 100mm.
- Factory blended for maximum quality control avoiding onsite errors

For more information please visit www.netweber.co.uk, call 08703 330070 or email solutions@netweber.co.uk



Five Star Grout & Five Star Grout SP

Five Star Grout

General-purpose, shrinkage-compensated, cementitious grout for dry packing, grouting, bolt fixing and bedding of machinery

Five Star Grout is a premixed cementitious grout developed for applications where an economical grout with good flow and strength is required. It is based on specially selected Portland cements, graded aggregates and admixtures including a special form of carbon. This special formulation produces a grout which conforms to ASTM C827 Early Volume Change of Cementitious Mixtures.

Uses

- Under stanchion plates and machinery (static loads only)
- Grouting bearings, precast units, floors etc
- Fixing anchor bolts, balustrades, crash barriers, starter bars
- Underpinning
- Void filling

Features & Benefits

- **Five Star Grout** is shown to be effectively non-shrink by ASTM C827
- Volume expansion to ASTM C827 when unrestrained is greater than 1.0%
- Precision grout suitable for use over a range of temperatures and site conditions
- Can be pumped, poured, trowelled or 'dry-packed' for maximum versatility
- Does not contain iron, aluminium or other additives which produce non-shrink characteristics by chemical reaction, eliminating any subsequent problems of dimensional instability, corrosion or staining
- Thermal expansion similar to that of good quality concrete
- Can be applied in thicknesses from 10mm to 100mm
- Does not significantly lose workability during pot life

Five Star Grout SP

High-flow, high-strength, shrinkage-compensated, cementitious precision grout.

Five Star Grout SP has the same benefits as **Five Star Grout** but also offers better flow, greater initial and long term strength and complies with Highways Agency Specification for Highway Works Vol 1, Clause 2601

Uses

- Under machinery and stanchion plates
- Grouting rails and bridge bearings
- Fixing bolts
- Underpinning
- Void filling

Features & Benefits

- Complies with HA Specification Clause 2601
- Precision grout suitable for use over a range of temperatures and site conditions
- Can be pumped, poured or trowelled
- Does not contain iron, aluminium or other additives which produce non-shrink characteristics by chemical reaction eliminating any subsequent problems of dimensional instability, corrosion or staining.
- Thermal expansion similar to that of good quality concrete
- Excellent flow properties
- Can be applied in thicknesses from 10mm to 100mm
- Does not significantly lose workability during pot life
- High initial and long term strength development

For more information please visit www.netweber.co.uk, call 08703 330070 or email solutions@netweber.co.uk

weber.tec grout FG & weber.tec EP pourable grout

weber.tec grout FG

Fast-setting, high-strength flowing grout

weber.tec grout FG is a three-component polyester grout for anchoring and fixing. Fast-setting for rapid installation and can be used down to 0°C. Flowing grout to fill gaps between 5mm to 90mm dependent on bulking out with aggregate.

Uses

- Grouting runway lights
- Fixing vertical bolts, starter bars and dowels
- Grouting anchor bolts and holding down bolts

Features & Benefits

- Fast-setting with rapid strength gain, allowing loads to be applied within two hours at 20°C
- Economical usage through part mixing by volume
- Available in standard, rapid and tropical grades depending upon temperature
- Excellent adhesion to concrete and asphalt substrates
- Can be bulked out for varying gap sizes, 5mm – 90mm
- Proven technology with reliability

weber.tec EP pourable grout

High-strength, chemically-resistant grout

weber.tec EP pourable grout is specially formulated from epoxy resin and graded aggregates producing materials with exceptional toughness, chemical resistance, good flow characteristics and negligible shrinkage.

Uses

- Bearings
- Starter bars
- Dowels
- Balustrades
- Crane rails
- Machine baseplates
- Setting-in bolts
- Fixing runway lights
- Situations where tight clearances add to the difficulties of obtaining secure fixings

Features & Benefits

- Capable of withstanding high dynamic loads
- High compressive and tensile strength
- Very good chemical resistance
- Grout cures within the temperature range of 5°C to 35°C
- Negligible shrinkage factor allows use for underplate or rail grouting. Grout remains in contact with the underside
- Can be placed in much thinner sections than cementitious grouts resulting in cost savings

For more information please visit www.netweber.co.uk, call 08703 330070 or email solutions@netweber.co.uk



weber.tec EP structural adhesive

weber.tec EP TAG

weber.tec EP structural adhesive

Moisture-tolerant epoxy adhesive for structural bonding applications

weber.tec EP structural adhesive is a two-component, bisphenol epoxy resin and polyamine hardener, highly moisture-tolerant structural adhesive for structural jointing and structural strengthening. Used for application thicknesses of 2 – 10mm.

Uses

- Adhesive for structural bonding
- Jointing of precast segmental bridge units
- Adhesive for external steel plate bonding
- Adhesive for **weber.tec force** carbon plate composite strengthening
- Adhesive for bonding rubber bearing pads for highways and railways

Features & Benefits

- Excellent cohesive bond to prepared surfaces
- Good adhesion to concrete, steel, timber, glass, rubber and carbon fibre
- Negligible shrinkage on curing
- Moisture tolerant for all year round work
- Two grades available: standard and tropical
- Able to operate in temperatures from 5°C to 45°C
- Fully complies with TR55 - Using Externally Bonded Carbon Plate

weber.tec EP TAG

High-strength anchoring for horizontal bars or bolts

weber.tec EP TAG is a specially formulated epoxy resin system for securing horizontal fixings, such as dowel bars, starter bars, threaded studding and bolts into concrete or brickwork. A high-strength, corrosion and chemical-resistant anchoring is obtained, where speed of installation and early application of load is required. The thixotropic nature of the material ensures that the mixed resin stays in the hole after injection.

Uses

- Fixing:
 - Dowel bars
 - Starter bars
 - Threaded studding
 - Bolts
- Fixing reinforcement in structural brickwork
- Sealing and gap filling

Features & Benefits

- Quick and easy cartridge loading with mixed material
- Large pack economy with the facility of small mixes to minimise wastage
- Easy to mix and place
- Very high strengths – approximately 60 N/mm² at 3 – 4 days
- Minimal shrinkage – when used in anchoring, the grout remains in contact with all faces of the hole and fixing
- Can be used for injection of larger cracks in concrete or brickwork where low viscosity resins are not appropriate
- Thixotropic nature ensures anchor grout remains in the hole
- Epoxy resin based, able to withstand dynamic and cyclic loading on bolts

For more information please visit www.netweber.co.uk, call 08703 330070 or email solutions@netweber.co.uk

weber.tec anchor grout & weber.tec cable grout

weber.tec anchor grout Fast-set polyester resin compound for anchoring and fixing

weber.tec anchor grout is a three-component polyester resin and special catalysed filler that has been developed for anchoring and fixing. The pourable grout is suited for pouring into holes for anchors in floors and slabs.

Uses

- Vertical anchorage of bolts and fixings to building and civil engineering work
- Fixings to concrete structures
- Anchor dowel bars to pavements and slabs

Features & Benefits

- Fast setting action with rapid strength gain allows loads to be applied within two hours
- Easy to mix and place
- Fixing cannot be vibrated out
- Economical fixing compared with mechanical fixings
- Stronger than concrete in one hour
- Part mixing of **weber.tec anchor grout** allows flexibility of use and no wastage of material
- Versatile material with fixings to concrete, brickwork and stone: one material for the project

weber.tec cable grout Fast-setting pourable grout for filling cable slots

weber.tec cable grout is a low-modulus, semi-flexible polyester resin compound for filling cable slots. Can be used with asphalt, bitumen and concrete surfaces. Used for gaps 5mm to 16mm wide.

Uses

- Runway airport lighting
- Taxiways and hardstanding
- Communication cables in sawn slots

Features & Benefits

- Easy to mix and place
- Does not segregate or bleed
- Rapid setting for quick return to service
- Can be used in cold weather down to 0°C
- Good abrasion resistance
- Excellent chemical resistance
- Available in two colour grades: black for asphalt, grey for concrete
- Available in three grades depending on application temperatures

For more information please visit www.netweber.co.uk, call 08703 330070 or email solutions@netweber.co.uk



Case Studies



The Millennium Eye Bridge, Gateshead, **5 Star Repair Concrete** & **5 Star Grout SP**

Project: Spinnaker Tower, Portsmouth

Product: **weber.cem grout & Five Star Grout**
Client: Portsmouth Harbour
UK Millennium Commission
Contractor: Mowlem Construction
Southern
Specifier: Scott Wilson



Designed by Scott Wilson, the £38m Spinnaker Tower is the focal point of Portsmouth Harbour's UK Millennium Commission sponsored Renaissance project.

Weber specified the **Five Star Grout** and **weber.cem grout** for the base plates and foundation areas of the cofferdam foundations.

Five Star Grout is a pre-mixed cementitious grout developed for applications where an economical grout with good flow and strength is required. **weber.cem grout** is designed primarily as a pourable grout but can also be used at a plastic or dry pack consistency.



Project: Docklands Light Railway - London City Airport link

Product: **weber.tec EP pourable grout**
Client: Docklands Light Railway
Contractor: Amec

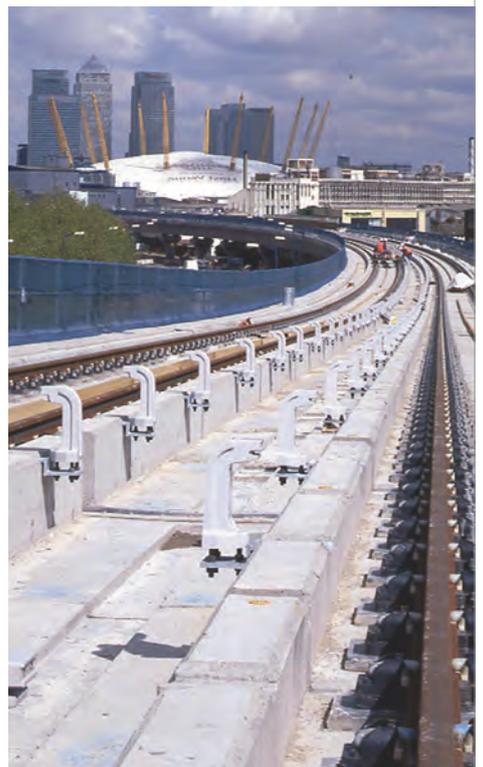


Weber was selected from a group of six manufacturers to provide a suitable product for the grouting of approximately 22,000 pads beneath the rails on a new connection.

weber.tec EP pourable grout, a grout with superior flow properties was chosen to distribute the load and ensure the rail was supported to the correct line and level.

The product was successfully trialled on-site to the approval of applicator Amec. The concrete under each plate was scabbled to achieve a minimum 15mm clearance. Formwork was then erected around the plates, clipped into position and sealed to prevent grout escaping. Hoppers were then constructed in accordance with **Weber's** recommendations to achieve a head of grout and to increase the speed of flow.

weber.tec EP pourable grout is specially formulated from epoxy resin and graded aggregates to produce a material with exceptional toughness, chemical resistance, good flow characteristics and negligible shrinkage. It is capable of withstanding high dynamic loads and proved to be the perfect solution for the DLR.



Project: The Swarm, Thorpe Park

Products: **weber.tec EP pourable grout**
Five Star Repair Concrete

Client: Merlin Entertainments

Specifier: HBL Associates and
Bolliger & Mabillard

Contractor: T G Cruse Construction Ltd



THORPE PARK'S new adrenaline-inducing theme park ride, THE SWARM, is the UK's first winged rollercoaster and sets a benchmark in ride experience.

The dynamic load of 28-rider trains travelling at up to 100km per hour, on 1000 tonnes of track over a distance of 775m (2,543 ft), is supported **Weber's** high performance precision grouts.

This enormous structure and the ground bearings are subjected to very high dynamic loadings generated by the fast and furious winged ride-cars. HBL Structural Engineers specified **weber.tec EP Pourable Grout** to fix the steel mountings to the concrete ground bearings that absorb these high loads. Selecting a material for fixing the plinth anchorages and the shear key anchorages had two main criteria; it had to have the ability to sustain high dynamic loadings and to transfer the stress from the structural steel components back into the concrete bases.



Project: Jubilee Line Underground Train Maintenance Depot

Products: **weber.tec EP pourable grout**

Client: London Underground

Contractor: McAlpine

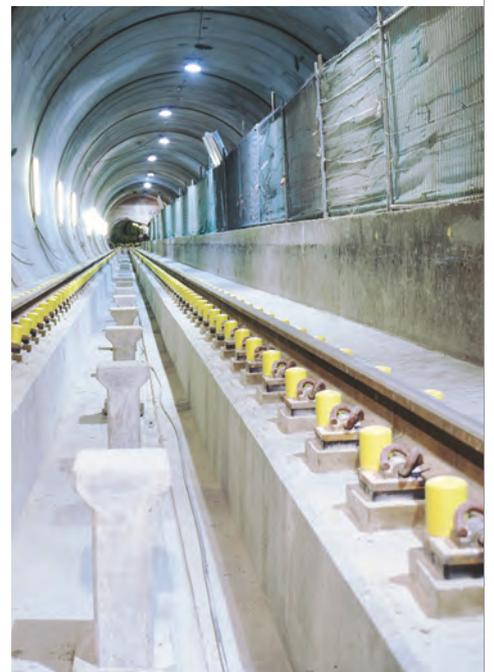
Applicator: Tarmac Construction



High flow epoxy grout providing excellent dynamic load carrying capacity and good chemical resistance.

weber.tec EP pourable grout was chosen for its high flow and good chemical resistance in this heavy maintenance depot where the rolling stock for the Jubilee Line is serviced and repaired.

weber.tec EP pourable grout is specially formulated from epoxy resin and graded aggregates producing materials with exceptional toughness and durability, making the product perfect for use in rail track installations as the grout has high compressive and tensile strength and remains in constant contact with the underside of the baseplate.



Project: The Millennium Bridge, London

Product: Five Star Grout SP
Five Star Repair Concrete CP

Specifier: Ove Arup

Contractor: McAlpine



Designed by Ove Arup, the bridge features low slung suspension wires that make the bridge seem, intriguingly, to defy gravity. This seemingly light aesthetic design disguises the fact that the same if not a greater load than traditional designs needs to be safely transferred to the supporting structure.

Five Star Grout SP was chosen to support the full weight of the structure via the bearings to column piers whilst **Five Star Repair Concrete** was used as the concrete to strengthen the caisson plinths.

The high performance precision grouts feature non-metallic chemistry so avoiding potential dimension instability, corrosion or staining in the future.



Project: The London Eye

Products: Five Star Grout SP

Client: British Airways

Contractor: McAlpine



Reliable transfer of load from the structure to supporting foundations is a vital element of design in any Civil Engineering project especially where high static loads and the transport of the public are part of the equation. Due to its long service record of reliability in use, **Weber Five Star Grout SP** was chosen by the contractors McAlpine to carry out this crucial role.

Five Star Grout SP had to perform in the confined space between the superstructure of the fabrication and the concrete foundations that support it. In this vital but restricted area it is important that full contact with all bearing surfaces is achieved, with no air voids or shrinkage.

Five Star Grout SP is usually poured or pumped as a flowing grout into such areas. On setting and curing the material is slightly expansive and has thermal movement characteristics similar to the supporting concrete.

The exclusion of any metallic based elements from the formulation eliminates any possibility of subsequent problems such as dimensional instability, corrosion or staining.



Technical Support and Services

Weber has built a reputation for its technical support, both at design and on site during the application programme. Qualified civil engineers and experienced specialists are available in the field to provide important design and preparation advice to specifier and contractor and support to applicators as the project progresses. While these teams can assist when problems develop, their main purpose is to address issues vital to the successful completion of a project before the problems occur and assist all involved in reaching the 'right first time' goal.

Training

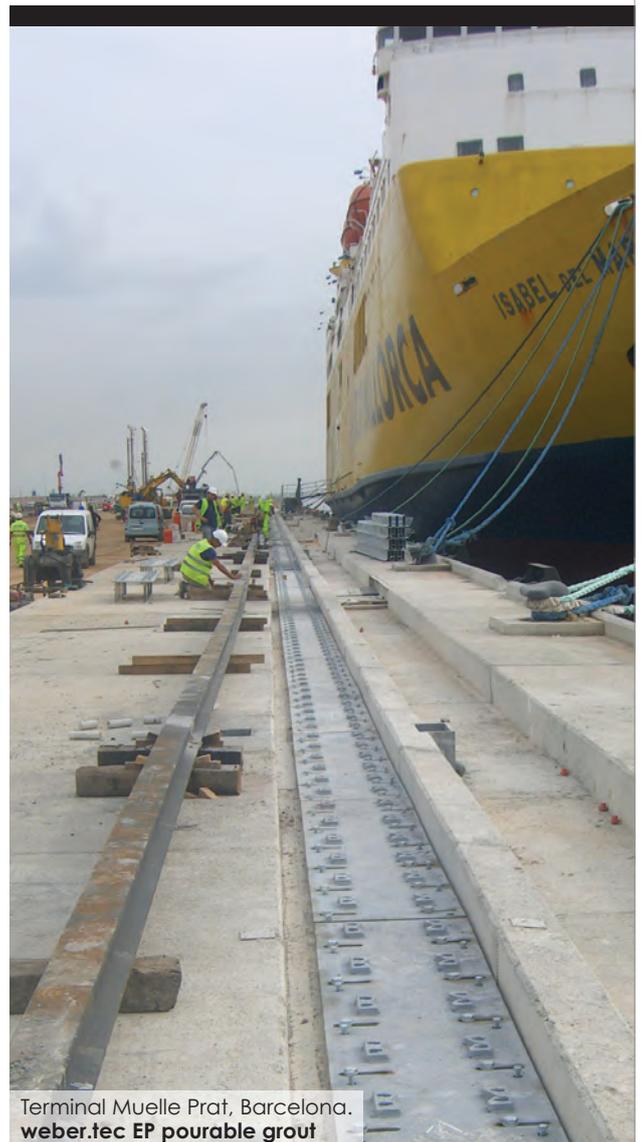
Based on its strong knowledge and experience of its market, the **Weber** training programmes meet the needs of its customers. **Weber** has invested in dedicated training facilities which offer the opportunity for both theoretical and practical training with conference room and purpose designed practical areas.

One-day courses for training on repair and maintenance techniques are undertaken at our Flitwick Head Office. Subjects include structural concrete repair, bedding, grouting and composite strengthening.

Interest in the availability of training should, in the first instance, be directed to your local Sales Manager or **Weber** direct on 08703 330070 or email: mail@netweber.co.uk

Recognised & Recommended Applicators

Experienced labour is more and more difficult to locate, especially in the application of technical products where the standard of work left reflects directly on specifier indemnity. **Weber** will put specifiers and clients in touch with specialist applicators that have shown they can produce good quality work. A selection of Recognised and Recommended Applicators can be supplied for major projects detailing their range of specialities, skills and resources, all will have experience in successfully applying **Weber** materials.



Terminal Muelle Prat, Barcelona.
weber.tec EP pourable grout



Docklands Light Railway.
weber.tec EP pourable grout

Quality Assurance & Guarantees

Totally committed to quality, customer service and the ongoing development of high performance materials, **Weber** provides a Ten Year Materials Guarantee. The **Weber** Ten Year Guarantee covers all **Weber** products as long as they have been applied in accordance with the company's specification, instructions and good working practice. This guarantee does not affect your statutory rights.

Quality Assurance in manufacture is maintained through the use of modern plant and stringent quality testing. All facilities have regularly monitored quality systems and procedures in place and **Weber** has made considerable investment in achieving and maintaining the highest possible standards available. BS EN ISO standards are an important measure and control of the company's determination to follow these key drivers. All sites currently operate to BS EN ISO 9001:2000 and BS EN ISO 14001.

Standards

Weber Precision Grouting & Anchoring products listed in this guide have all been tested and adhere to the relevant parts of the industry requirement of BS EN 1504 standard (Products and systems for the protection and repair of concrete structures – Definitions, requirements, quality control and evaluation of conformity), where relevant. These include:

- BS EN 1504 Part 3 - Structural and non-structural repair
- BS EN 1504 Part 6 - Anchoring of reinforcing steel

A number of **Weber** Precision Grouting products also comply with the Highways Agency Specification, Clause 2601.

Sustainability

Weber takes the issue of sustainable development very seriously. In the UK and Ireland, we approach sustainable development in line with the Group's global strategy, but tailored to local requirements and circumstances. As part of the world leader in designing, manufacturing and distributing construction materials, we are committed to meeting some of the most fundamental challenges faced by the world today.

These are:

- Reducing energy consumption
- Limiting our impact on the environment
- Creating a new generation of buildings which are safe, comfortable and energy efficient.

Weber is continually investigating innovative concepts for materials and exploring methods of production that are aimed at reducing its impact on the world's natural resources and involve lower risk to applicators in use.



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