

Rapid-setting, shrinkage-compensated grout

Five Star* grout fast set



Uses

- Rapid bedding of bearing plates, pads, sleepers
- Infilling of holes, voids and honeycombed concrete

About this product

Five Star grout fast set is a rapid setting, rapid strength cementitious grout which is shrinkage compensated by means of a special non-metallic additive.

The unique blend of special cements produces a grout which has a set time of 15 to 45 minutes depending on temperature. As this grout does not contain iron, aluminium or other corroding additives, it is dimensionally stable and non-staining.

Features and benefits

- ▲ Factory blended to eliminate on-site errors
- ▲ Shrinkage compensated grout suitable for use over a range of temperatures and site conditions
- ▲ Can be pumped, poured or trowelled
- ▲ Rapid compressive strength development
- ▲ Excellent flow properties
- ▲ Does not significantly lose workability during its workable life
- ▲ 20 year track record within London Underground

Technical data

Typical properties

Compressive strength	20°C	5°C
	2 hours: 10 N/mm ²	6 hours: 9 N/mm ²
	7 days: 30 N/mm ²	12 hours: 15 N/mm ²
	28 days: 40 N/mm ²	24 hours: 15 N/mm ²
Set time (dependent on temperature)	20 mins at 25°C	
	60 mins at 5°C	
Flow by the Cylinder Flow Test to Highways Agency Specification for Highway Works, Clause 2601, 1986:		
Flow spread diameter	80 to 105 mm at 20°C	
Wet density	2130 kg/m ³	

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Preparation

Surface preparation

All surfaces in contact with **Five Star grout fast set** must be clean, sound, free from all grease, oil, dust and other contamination.

Steel

Steel reinforcement should be grit blasted followed by degreasing with a suitable solvent. However, where corrosion is absent wire brushing to a clean surface will be adequate.

Concrete

Concrete substrates must be adequately prepared by a suitable mechanical method such as scabbling, grit blasting or needle gunning, or by other appropriate means.

Old concrete surfaces contaminated with oil or grease require cleaning with a suitable detergent. Care must be taken to ensure that the oil or grease is removed from the surface and not simply spread over a large area.

Soak existing concrete and drain off, removing all surface water prior to placing the grout.

Mixing

Mixing should be carried out in a proprietary grout mixer or by using a medium speed drill (650 rpm) with an MR4-type helical attachment.

Use only sufficient water to produce the desired consistency.

Do not use more than 4.8 litres of clean water per 25kg bag.

Application

When pouring, the area to be grouted should be shuttered and a header box used to maintain a grout head of 150 – 200mm during the pour.

Machine mixing is recommended to achieve continuous pouring. Mixing and placement can be carried out between +5°C to + 30°C.

In service **Five Star grout fast set** will perform similarly to other cementitious mixes based on Portland cement in the temperature range of –20°C to 150°C.

Where the product thickness of grout is greater than 100 mm, the product should be bulked-out with 5 – 10 mm dry single sized pea shingle or similar dense rounded aggregates.

Curing

For optimum results, in common with all cement based products, apply **weber.tec ritecure** to exposed surfaces of grout, or cover with close contact polythene sheet.

Do not use **weber.tec ritecure** when surfaces are to receive subsequent treatments.

Packaging

Five Star grout fast set is supplied in 25 kg polylined bags.

Yield

Yield: approx 14 litres

Storage and shelf life

When stored unopened in a dry place at temperatures above 5°C, shelf life is 6 months from date of manufacture.

Health and safety

Contains cement (Contains chromium (VI). May produce an allergic reaction). Harmful by inhalation. Irritating to eyes and skin. Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing, gloves and eye/face protection.

For further information, please request the Material Safety Data Sheet for this product.

Technical services

Weber's Customer Services Department has a team of experienced advisors available to provide on-site advice both at the specification stage and during application. Detailed specifications can be provided for specific projects or more general works. Site visits and on-site demonstrations can be arranged on request.

Technical helpline
Tel: (01525) 722110

Sales enquiries

Weber products are distributed throughout the UK through selected stockists and distributors. For UK sales enquiries and overseas projects, contact **Weber's** Sales office.

Sales office
Tel: (01525) 722100
Fax: (01525) 718988



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Saint-Gobain Weber Ltd
Dickens House, Enterprise Way, Maulden Road, Flitwick, Bedford MK45 5BY, UK
Tel: 08703 330070 Fax: (01525) 718988 e-mail: mail@weberbuildingsolutions.co.uk