

Fast-setting, high-strength flowing grout

weber.tec grout FG



Uses

- Fixing airport lighting units
- Fixing vertical bolts, starter bars and dowels
- Grouting anchor bolts and holding down bolts

About this product

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 of between 5 mm up to 90 mm dependent upon bulking out with aggregate.

Features and benefits

- ▲ Fast-setting with rapid strength gain, allowing loads to be applied within 2 hours at 20°C
- ▲ Available in standard and rapid grades depending upon temperature
- ▲ Excellent adhesion to concrete and asphalt substrates
- ▲ Can be bulked out for varying gap sizes, 5 mm – 90 mm
- ▲ Proven technology with reliability
- ▲ Over 30 years experience worldwide

Technical data

Property	Test method	Result
Tensile strength	ASTM D-638	5.25 MPa
Elongation	ASTM D-638	<1%
Coefficient of linear expansion	ASTM D-1168	33 x 10 ⁻⁶ m/m K
Dielectric strength (short time test)	ASTM D-149	350 v/mil
Arc resistance	ASTM D-495	197 sec
Adhesion to steel	Proprietary	5.34 MPa
Adhesion to concrete	Proprietary	3.63 MPa (concrete failure)
Adhesion to asphalt	None	Asphalt failure at <0.7 MPa
Compatibility with asphalt concrete	ASTM D-3407	Yes
Bond to aluminium light base (Weber test)	Internal pull-off	3 MPa

Pot life or cure time

Temperature	Standard grade	Rapid grade
0°C	–	40 minutes
5°C	–	25 minutes
7°C	Do not use below 10°C	22 minutes
10°C	55 minutes	17 minutes
15°C	45 minutes	12 minutes
20°C	30 minutes	Do not use above 17°C
25°C	20 minutes	–
30°C	15 minutes	–
35°C	12 minutes	–
40°C	8 minutes	–

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Preparation

It is essential that all surfaces are clean, sound and dry. Inadequate preparation is likely to lead to a failure of bond.

Concrete surfaces should be prepared by suitable mechanical method to provide a clean, freshly-exposed concrete surface. Drill holes with a rotary percussive drill to provide a rough side to the drilled hole suitable for anchorage.

New concrete must be 28 days old and free of any cement laitance.

Steel surfaces should be free of any surface rust and grit blasted. Degrease with **weber.tec solvent 3**.

Asphalt surfaces should be clean, sound and dry. Ensure any cut surfaces are washed to remove any slurry or dirt.

Application

weber.tec grout FG must be placed immediately after mixing, due to the rapid set of the grout.

Setting times are dependent on temperature and these are shown in the Technical Data on the facing page.

Ensure there are no voids or entrapped air in the gap.

It is recommended that in hot weather, the product is kept as cool as possible.

Yield

Yield is dependent upon bulking out – see *Mixing*.

Storage and shelf life

Store in a cool, dry place.

Shelf life of unopened packs is at least 12 months.

For hot weather conditions, it is recommended that **weber.tec grout FG** is kept cool in a refrigerated container and in insulated boxes on site. This will ensure a longer working time.

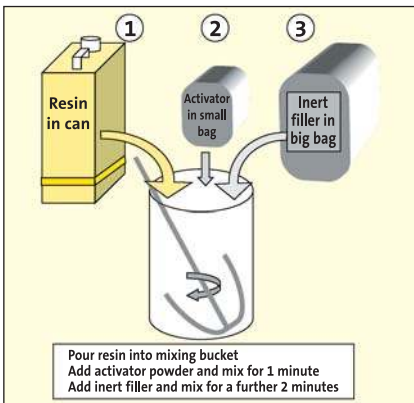
Packaging

weber.tec grout FG is supplied in 23.3 kg packs.

Health and safety

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

Mixing



Pour the resin into a clean plastic or other suitable container and gradually add the small bag containing hardener. Mix thoroughly. Now add the large bag containing filler and mix until a uniform colour and consistency is achieved.

Small quantities can be mixed by hand using a spatula, flat stick etc. Larger quantities should be mixed using a mechanical stirrer or electric drill attachment, such as an MR4-100 blade at a speed below 450 rpm.

weber.tec grout FG when mixed is used for annular gaps of between 5 mm and 12 mm. For larger gaps, **weber.tec grout FG** can be bulked out as follows:

Gap size	Materials	Yield
5 – 12 mm	weber.tec grout FG	12 litres
12 – 25 mm	Up to 20 kg oven dried 8 – 16 grade sand per pack grout	20 litres
20 – 40 mm	Up to 27 kg of aggregate single size 5 – 6 mm per pack grout	22 litres
30 – 90 mm	15 kg of aggregate, single size 10 mm per pack of grout	18 litres

NB: do not use site sand or aggregates. All aggregates must be oven-dried.

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: 08703 330 070
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Sales enquiries

Weber products are distributed throughout the UK through selected stockists and distributors. Please contact the relevant Customer Services Team below for all product orders and enquiries.

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