

Rapid setting high strength flowing grout with longer working time for warmer conditions

webertec grout FG tropical grade



Uses

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

Precautions

This product must be stored in cool dry conditions below 25°C.

About this product

webertec grout FG tropical grade is a three-component polyester grout for anchoring and fixing. Fast-setting for rapid installation and can be used from 20°C to 40°C. Flowing grout to fill gaps of between 5 mm up to 90 mm dependent upon bulking out with coarse aggregate.

Technical data

The following test results were obtained in laboratory conditions at the following temperatures: Tropical grade, 30°C.

	2 hours	24 hours	72 hours
Compressive strength	70 – 80 N/mm ²	80 – 90 N/mm ²	90 – 96 N/mm ²
Tensile strength	10 – 12 N/mm ²	10 – 13 N/mm ²	12 – 15 N/mm ²
Flexural strength	25 – 29 N/mm ²	25 – 30 N/mm ²	27 – 32 N/mm ²
Flexural modulus of elasticity E _k value	10 – 12 kN/mm ²	12 – 15 kN/mm ²	14 – 16 kN/mm ²

Pot life or cure time

Temperature	Tropical grade
0°C	–
5°C	–
7°C	–
10°C	–
15°C	–
20°C	40 minutes
25°C	33 minutes
30°C	28 minutes
35°C	23 minutes
40°C	10 minutes

Once cured the material is suitable for service conditions of +60°C.

Features and benefits

- ▲ Tropical grade can be used in the ambient temperature range from 20°C to 40°C. At temperatures above 40°C, keep product stored in cooled containers shaded from direct sunlight before use
- ▲ Fast-setting allowing loads to be applied within 2 hours at 35°C
- ▲ Also available in standard (10°C to 25°C) and rapid (0°C to 15°C) grades for use at lower temperatures
- ▲ Excellent adhesion to concrete and asphalt substrates
- ▲ Can be bulked out for varying gap sizes, 5 mm – 90 mm
- ▲ Proven reliable technology with over 20 years experience

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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.

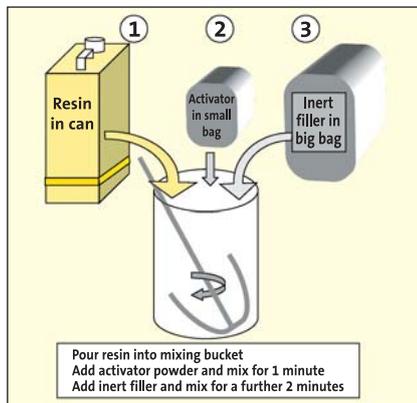
Concrete surfaces should be prepared by suitable mechanical method to provide a clean, freshly-exposed concrete surface. Drill holes with a rotary percussive drill to provide a rough side to the drilled hole suitable for anchorage.

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 **webertec solvent**.

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

Mixing



webertec grout FG tropical is used for annular gaps of between 5 mm and 15 mm. For larger gaps, **webertec grout FG** can be bulked out as follows:

Gap size	Materials	Yield
5 – 15 mm	webertec grout FG tropical	12 litres
15 – 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.

Application

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

Pour the grout into a suitable funnel, hopper or a lipped jug and pour into the gap around the base from one side only. Pour continuously until the grout fills the annulus completely all the way around the rim. Clean off any excess grout.

Move to the next light base quickly and repeat the above procedure. Do not use the grout if it begins to skin over. At higher temperatures, over 35°C, it is normal practice to divide the mixed grout into smaller jugs and to use them on several bases at the same time.

Clean all equipment with **weber solvent** before the grout sets.

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.

Packaging

webertec grout FG tropical is a 3-component product – total weight 22.5 kg.



5 litre can of resin, 15 kg of inert filler and activator in carton.



Remove the large tin of resin from the box and pour all of resin into a clean dry mixing bucket. Take out the small bag of the ACTIVATOR from the box and pour all the contents into this bucket. Use a mechanical stirrer with the special blade illustrated or a helical mixing blade such as an MR4-100 at a speed not exceeding 450 rpm for 1 minute. Then add all the contents of the bag of inert powder filler gradually while stirring all the time. When all this powder has been added, mix for a further minute until a uniform, lump-free grout has been obtained



Storage and shelf life

Store the box in a cool dry place below 25°C. Shelf life of the product is 12 months from date of manufacture provided it has been stored correctly. Shelf life will be reduced if the product is stored above 25°C and in humid conditions above 75% RH.

For hot weather conditions, it is recommended that the tropical grade is kept cool in a refrigerated container and in insulated boxes on site. This will ensure a longer working time.

Yield

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

Health and safety

Polyester-based.

Wear gloves when handling **webertec grout FG**.

When freshly mixed and before it has set, **webertec grout FG** is flammable, with a flash point of 30°C. The material can be handled safely and easily, provided that proper site cleanliness is observed. Operatives are advised to avoid direct contact by using barrier creams and protective clothing. In the event of contamination the product should be removed with soap and water or proprietary cleansing creams. Working areas should be well ventilated

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

To the best of our knowledge and belief, this information is true and accurate, but as conditions of use and any labour involved are beyond our control, the end user must satisfy himself by prior testing that the product is suitable for his specific application, and no responsibility can be accepted, or any warranty given by our Representatives, Agents or Distributors. Products are sold subject to our Standard Conditions of Sale and the end user should ensure that he has consulted our latest literature.

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
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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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