

*High-strength, better flowing
chemically-resistant grout*

webertec black EP pourable grout



Uses

webertec black EP pourable grout finds a wide application in the grouting of:

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

About this product

webertec black EP pourable grout is specially formulated from epoxy resin and graded aggregates producing a specialist grout with exceptional toughness, chemical resistance, excellent flow characteristics and negligible shrinkage.

Features and benefits

- ▲ Capable of withstanding high dynamic loads
- ▲ High compressive and tensile strength
- ▲ Very good chemical resistance
- ▲ Cure within the temperature range 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
- ▲ Suitable for gap sizes 5 – 75 mm

Technical data

BS EN 1504 test data

		10°C	20°C
Compressive strength	6 hours	–	25 MPa
	12 hours	–	40 MPa
	24 hours	25 MPa	60 MPa
	3 days	55 MPa	70 MPa
	7 days	70 MPa	76 MPa
	Flexural strength	24 hours	12 MPa
3 days		20 MPa	29 MPa
7 days		28 MPa	35 MPa

FAA P606 test data

	Test method	Result
Tensile strength	ASTM D-638	16.06 MPa
Elongation	ASTM D-638	<2.25%
Dielectric strength (short time test)	ASTM D-149	280 v/mil
Arc resistance	ASTM D-495	183 sec
Adhesion to steel	Proprietary	7.54 MPa
Adhesion to concrete	Proprietary	2.74 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

Chemical resistance

webertec black EP pourable grout is shown to be unaffected by a wide range of acids, alkalis and industrial chemicals.

The results of immersion at 20°C to a typical range of chemical solutions and solvents are:

Caustic Soda	20%	Unaffected
Hydrochloric Acid	20%	Unaffected
Sulphuric Acid	20%	Unaffected
Detergent		Unaffected
Petrol and Oil		Unaffected

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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

A forced-action mixer such as a Mixal or Creteangle is recommended. Alternatively, use a powerful drill (> 800 W) at a slow rotational speed (< 400 rpm) with a Refina MR4 mixing blade, which improves mixing efficiency of resin mixtures. Use a mixing bucket of capacity 20 litres with a diameter of about 20 – 25 cm.

Pour the contents of the bottle of hardener into a suitable bucket and add the contents of one can of resin. Mix for at least 30 seconds then add one full bag of powder gradually while continuing to mix for 1 minute. Ensure that the mixing blade is below the grout level at all times and has fully mixed all the contents especially at the bottom of the bucket. The mixed material must be uniform in colour, indicating that the components are fully blended.

It is important to keep the mixing head below the level of the grout during mixing to avoid entrapment of air.

For sections thicker than 50 mm, the addition of up to 12.5 kg of dry, single-sized pea gravel (5 mm) per 25 kg mix is permitted.

Application

Pouring

Immediately after mixing, pour the mixed grout into place, using a spatula to aid transfer of contents if necessary.

It is imperative that a hopper is used to help the grout to flow quickly. Removable hoppers with valves are recommended. As soon as the grout has reached and has filled the small air slit at the opposite end of the shutter, close off the valve in the hopper and move the hopper to the next plate. Remove excess grout and any grout that has spilled onto the plate with a palette knife or scraper.

Pumping

Pumping is best using a peristaltic pump. **Weber** can recommend suitable machinery.

When pumping, place the end of the hose under the centre of the plate so the grout radiates from the centre. When the grout has reached the far side, start to withdraw the hose very slowly with the pump running to avoid forming air pockets.

Protection

The completed grouted plates must be protected from rain, strong sun and frost for a minimum period of 24 hours during cure.

Pot life or working time

Temperature

Below 5°C	Do not apply
5°C	Approx. 5 hours
10°C	Approx. 3 hours
20°C	Approx. 2 hours
35°C	Approx. 40 minutes
Above 40°C	Do not apply

Cleaning

Fresh grout that has not yet set can be removed with **webertec solvent** using a cloth or brush to clean tools and spillages.

Set grout has to be removed with methylene chloride paint stripper and care must be taken during its use.

Packaging and yield

webertec black EP pourable grout suitable for gap sizes 5 – 75 mm:

A three-component pack which makes up into one mix.
Pack size 25 kg – yield approx. 14 litres.

Storage and shelf life

The shelf life of **webertec black EP pourable grout** is in excess of 12 months if stored in cool, dry, frost-free conditions.

Health and safety

Contains epoxy constituents. Refer to information supplied by manufacturer (see Material Safety Data Sheet).

All skin contact with epoxy resin products should be avoided. Barrier creams should be used and operatives should wear protective clothing including gloves. Working areas should be well ventilated.

The hardener content is alkaline and labelled as corrosive. The resin content is labelled as an irritant. The flash point of all components is in excess of 100°C. In the event of fire use foam, dry chemical, carbon dioxide (CO₂) or water fog extinguishers.

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

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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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