

Epoxy primer for webertec force composite sheets

webertec force EP primer



About this product

webertec force EP primer is a two-component epoxy resin primer for concrete and masonry surfaces. It is used to seal and stabilise prepared surfaces prior to bonding fibre sheets for structural strengthening.

Technical data

The following test results were obtained in laboratory conditions at 20°C.

Mechanical properties

Bond to concrete	> 5.3 N/mm ²
Coefficient of expansion	8 x 10⁻6 mm/mm °C
Glass transition temperature	>60°C

Uses

- Epoxy primer for carbon fibre, glass fibre and aramid sheets
- To stabilise weak surfaces prior to strengthening
- A component of webertec force composite strengthening system

Features and benefits

- Develops excellent bond strength to prepared substrate
- Easy to mix and apply
- Will stabilise surfaces allowing work to proceed on marginally weak surfaces

EU VOC regulations 2012

EU limit for webertec force EP primer (cat A/j): 550 g/l (2007)/500 g/l (2012). webertec force EP primer contains <100 g/l VOC.

To consider

Structural engineer needs to ensure that this product will not be required to maintain its strength in the event of fire including taking full design liability of determining a suitable fire encasement if applicable in accordance with Concrete Society Technical Report 55.

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Preparation

No primer will develop full adhesion to the surface of the substrate without the substrate being carefully prepared. The substrate should be clean and mechanically sound to receive the primer.

When bonding **webertec force** composites to concrete it is important to check the tensile bond strength f_{ctm} of the concrete surface.

A high-strength concrete may have a poor quality surface with a low tensile bond strength and could be unsuitable for bonding.

Minimum f_{ctm} values shall be:

1 N/mm²webertec force carbon sheet1 N/mm²webertec force aramid sheet1 N/mm²webertec force glass sheet

Tensile bond pull-off tests shall be conducted after the surface has been prepared using light grit blasting or grinding.

Old concrete may be contaminated with oils, grease or salts and these must be removed prior to priming.

New concrete should be cured for at least 14 days using efficient curing techniques. If a spray-on curing compound has been used, this must be removed by light grit blasting prior to priming.

Mixing

Use a clean, dry plastic bucket or container for mixing. Pour in the resin and slowly add the hardener component. Mix thoroughly to an even colour and consistency.

Application

Immediately after mixing, **webertec force EP primer** should be applied by brush or roller to the prepared surface. Health and safety

Material Safety Data Sheet).

should be well ventilated.

water fog extinguishers.

Contains epoxy constituents. Refer to

information supplied by manufacturer (see

All skin contact with epoxy resin products

should be avoided. Barrier creams should be

used and operatives should wear protective

The hardener content is alkaline and labelled

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

For further information, please request the

Material Safety Data Sheet for this product.

as corrosive. The resin content is labelled as

clothing including gloves. Working areas

Apply to a uniform, thin coat and brush into the surface. Avoid material running down the substrate.

Pot life and cure time

The effective workable time of the mixed primer is comparatively short when left in the mixing vessel, i.e. 20 minutes at 20°C.

The pot life can be extended by pouring the mixed material into a shallow tray to dissipate the heat created during the polymerisation hardening phase.

Temperature	7°C	10°C	20°C
Pot life	4.5 hr	2.5 hr	1 hr

Packaging

5.5 kg pack yielding 5 litres.

Coverage

3 – 4 m²/litre per coat.

Sales enquiries

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UK and Ireland

Tel·

e-mail

Storage and shelf life

Shelf life is at least 12 months when kept unopened in correct storage conditions in a cool, dry area.

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.

customerservice@netweber.co.uk

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 718877 e-mail technical@netweber.co.uk

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