

Moisture-tolerant epoxy primer for *weber.tec EP products*

## weber.tec EP tackcoat



### Uses

- As a damp proof membrane (DPM)
- As a primer for **weber.tec EP** floor coatings
- As a primer for use on dry and damp surfaces
- Adhesive to bond freshly-mixed cementitious mortars to existing concrete on floor/horizontal surfaces
- Adhesive for cementitious screeds

### About this product

**weber.tec EP tackcoat**, a low-viscosity, moisture-tolerant epoxy resin and liquid hardener system, has been developed to provide a versatile priming coat suitable for both dry and damp surfaces, and can be used at temperatures down to 7°C. Its main use is as a primer for other **weber.tec EP** compounds, but may also be used to bond freshly-mixed cementitious floor toppings to existing sound concrete substrates. Pot life has been extended to approximately twice that of **weber.tec EP bonding aid**.

### Features and benefits

- ▲ Easy to apply
- ▲ Economic coverage
- ▲ Excellent bond to a variety of substrates with proven durability
- ▲ Compatible with **weber.tec EP** materials for longevity of application
- ▲ Will bond thin cementitious screeds to concrete floors
- ▲ Moisture-tolerant, allowing work to proceed on damp surfaces
- ▲ Will develop bond strength properties in excess of surface strength of good quality concrete within 48 hours at 7°C

### Technical data

All tests carried out at 20°C.

Compressive strength (BS 6319-2)	85 N/mm <sup>2</sup>
Tensile strength (BS 6319-7)	19 N/mm <sup>2</sup>
Flexural strength (BS 6319-3)	30 N/mm <sup>2</sup>
Modulus of Elasticity (BS 6319-6)	5 kN/mm <sup>2</sup>
Bond to abraded steel surface	17 N/mm <sup>2</sup>
Bond to concrete	* > 3.0 N/mm <sup>2</sup>
Bond of new to old concrete	* > 2.8 N/mm <sup>2</sup>
Pot life of 1 litre	22 minutes
Minimum temperature use	7°C

\* Failure of substrate concrete

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## Preparation

No primer will develop full bond strength without the surfaces of the materials to be bonded being carefully prepared to give a clean, mechanically sound surface.

### Concrete

When bonding to concrete it is the surface strength of the concrete in tension/shear which is fundamental. Many engineers consider the strength of concrete only in terms of cube strengths. Unfortunately, in practice, it is often possible to have a concrete substrate which, on the basis of the cube or cylinder compressive strength, is satisfactory, but which has a very low surface strength and is, therefore, unacceptable.

The surface must be prepared prior to bonding either by mechanical means such as grit blasting, scarifying, wire-brushing or bush hammering. Care should be taken not to induce micro cracks in the substrate.

Old concrete is often contaminated with oil and grease and this must be removed before preparing as above. Steam cleaning in conjunction with a suitable detergent has proved an effective method. Care must be taken to ensure the oil and grease is removed and not simply spread over a larger area.

New concrete should be cured for at least fourteen days using efficient curing techniques (NB: Spray-on curing membranes must not be used as they may impair the subsequent bond, unless they are subsequently removed).

### Steel substrates

Steel substrates should be grit blasted to BS 7079 A1 and then degreased with a suitable solvent (e.g. **weber.tec solvent 3**) immediately prior to bonding.

### Other substrates

Information on recommended surface preparation procedures for other substrates is available on request.

## Mixing

Although **weber.tec EP tackcoat** can be used at lower temperatures, it is recommended that it is stored overnight at a minimum temperature of 15°C prior to mixing and application. In hot climates, store overnight in air-conditioned storage.

Packs have measuring cups included in the packs for part mixes. Details of proportioning is given on the pack labels.

Use a clean, dry plastic bucket or container for mixing. Pour in all the resin. Add the hardener and mix thoroughly to an even colour and consistency.

Small quantities can be mixed using a flat bladed palette knife or flat stick, but larger amounts should be mixed using a spiral headmixer or Epi-mixer on an electric drill at a speed below 450 rpm.

## Application

Immediately after mixing, **weber.tec EP tackcoat** should be applied by brush to the prepared surface at a uniform rate.

The material must remain tacky when applying other **weber.tec EP** products or cementitious mixes.

When used as a stabilising primer under epoxy self-levelling floor systems, allow the resin to set before applying the system.

Tools and any surplus material on surfaces should be cleaned with **weber.tec solvent 3** before set takes place.

### Pot life and cure time

The effective workable time of mixed **weber.tec EP tackcoat** is comparatively short when left in the mixing vessel i.e: 22 min. at 20°C – 1 litre pot

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

Cure time is dependent on many factors including site conditions, ambient and surface temperatures, and quantities mixed.

The table below is a guide only to the maximum cure time available.

7°C	10°C	20°C
12 hr	7 hr	2½ hr

Below 7°C use **weber.tec EP bonding aid**.

It is essential that these priming coats are tacky prior to the application of other **weber.tec EP** or cement-based products.

## Packaging

Weight 5-6 kg, yield 5-0 litres

## Coverage

20 to 30 m<sup>2</sup> depending on surface.

Coverage on rough concrete is 4 – 6 m<sup>2</sup>/litre per coat.

## Storage and shelf life

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

## 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 (CO<sub>2</sub>) 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

Tel: 01525 722100  
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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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