

High-build, solvent-free protective coating for concrete

weber.tec EP coating HB

hardac EP coating high build



About this product

weber.tec EP coating HB is a high-quality, two-component, solvent-free epoxy coating suitable for application both to new and existing concrete. It has been specially formulated to provide protection to areas subject to more aggressive forces.

Technical data

Typical properties

All tests carried out at 20°C.

Tensile strength	15 N/mm ²
Flexural strength	35 N/mm ²
Flexural modulus	1100 N/mm ²
Adhesion to good quality floor screed	6.5 N/mm ²
Adhesion to good quality concrete (concrete failure)	2.8 N/mm ²
Abrasion to abraded steel	8 N/mm ²

Pot life

Temperature	Pot life
5°C	240 min
10°C	75 min
20°C	40 min

Uses

- Light to medium engineering factories
- Aircraft hangers
- Food and drink production floors
- Chemical plants
- Canning plants
- Assembly plants

Features and benefits

- ▲ Very good chemical resistance
- ▲ Good resistance light to medium traffic
- ▲ Easy to clean
- ▲ Can be made non-slip for wet areas
- ▲ Durable
- ▲ Will not harbour bacteria growth
- ▲ Decorative finish can be modified by use of coloured flakes
- ▲ Good impact resistance
- ▲ Can be laid as a multi-layer system
- ▲ Product can be laid from 0-200 mm up to 1 mm

Chemical resistance

Hydrochloric Acid	30%	Excellent
Sulphuric Acid	30%	Excellent
Sodium Hydroxide	30%	Excellent
Ammonia Solution	30%	Good
Citric Acid	30%	Excellent
Lactic Acid	30%	Good
Sugar Solution	50%	Excellent
Industrial Methylated Spirit		Good
Toluene		Fair
Petrol		Excellent
Engine Oil		Excellent

There was no discolouration of any specimens during chemical tests.

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Preparation

weber.tec EP coating HB can be applied to both new and existing concrete or cementitious toppings. New concrete should be at least 21 days old. The substrate must have a minimum compressive strength of 25 N/mm² and after preparation have a pull off strength of not less than 1.0 N/mm². The moisture content must not exceed 6% when tested with a Protimeter or have a relative humidity at the slab surface above 75% when tested with a hygrometer.

All oil and grease must be removed. Care must be taken to ensure oil and grease is removed and not simply spread over a large area.

Any spalled or damaged areas must first be repaired and brought level using a suitable repair compound such as **weber.cem pyrapatch**, **weber.cem pyratop** or **weber.tec EP mortar**.

A sound, freshly-exposed surface, free of laitance, etc. should be obtained either by mechanical means such as grit blasting, scabbling and bush hammering, or by acid etching, in which case the surface must be thoroughly washed and dried.

The importance of thorough preparation to produce the clean, freshly-exposed surface cannot be over emphasised. Inadequate preparation is likely to lead to a failure of bond.

On very poor substrates it may be necessary to consider the use of **weber.tec EP tackcoat** prior to the application of **weber.tec EP coating HB**.

Mixing

weber.tec EP coating HB is supplied as a two part system comprising resin and hardener which need to be thoroughly mixed together in the proportions supplied immediately prior to application.

Mixing should be carried out using a slow speed stirrer or electric drill attachment.

Transfer to a shallow tray immediately after mixing will help to dissipate heat and give a longer working time.

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) 722110

Application

The coating is applied by pouring onto small areas at a time, then spreading with a suitable brush or good quality foam-backed roller to achieve a smooth, even finish. If applied to the floor immediately after mixing, it will take about 5 hours to set. Depending on temperature, the coating must be allowed to cure for up to 24 hours before applying a second coat in the same manner. If a non-slip finish is desired, a thin dusting of dry sand or grit may be sprinkled between coats. A further 48 hours should be allowed before permitting traffic. Maximum inter-coat time 36 hours.

When cured, **weber.tec EP coating HB** is not affected by water and frost. Consequently it can be used on surfaces which will ultimately be continually immersed in water. The material should not be applied in frosty weather or in temperatures below 5°C as this will increase the cure time beyond 48 hours, taking corrosion, water and frost resistant properties longer to develop.

Do not apply **weber.tec EP coating HB** over movement joints.

Colours

weber.tec EP coating HB is supplied in the following standard colours:

Light grey RAL 7035
Mid grey RAL 7040

Additional colours to RAL standard, such as Red RAL 3009 and Beige RAL 1001, can be made subject to quantity and will carry a surcharge.

Cleaning

Brushes and tools should be cleaned immediately after use with **weber.tec solvent 3**.

Maintenance

In any flooring situation where chemical spillage or contact may occur, all chemicals should be removed immediately. To help extend the service life of the product, regular cleaning is recommended either by dry suction or water washing. Do not scrape or scour the surface. **Weber** flooring products are resistant to a wide range of detergents, disinfectants and floor cleaners. It is recommended that the customer conducts a trial on a small area before general use. Avoid the use of acid or oxidising cleaners.

Packaging

weber.tec EP coating HB is available in a 5 litre pack comprising resin and hardener.

Coverage

Approximately 8 m² per 5 litre pack when applied in 2 coats on smooth concrete.

On floors, the thickness of the coat may be increased up to 1 mm.

Dry film thickness: 400 µm in 2 coats.

Storage and shelf life

Store in cool, dry conditions between 5°C and 25°C. Shelf life in correct storage conditions is at least 12 months.

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.

Sales enquiries

Weber products are distributed throughout the UK through selected stockists and distributors. For UK sales enquiries and overseas projects, contact **Weber's** Sales office.

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