CI/SfB | | Yr4 |
Uniclass L53923 July 2008

Chemical and UV-resistant polyurethane coating

weber.tec PU sealcoat

hardac PU seal coat

About this product

weber.tec PU sealcoat is a two-component polyurethane coating which can be applied direct to concrete surfaces to act as a protective coating against chemical attack. The product can be used internally or externally and is available in a silk finish.

Technical data

Typical properties

Resin component (A) viscosity	750 cp at 20°C
Hardener component (B) viscosity	225 mPa.s at 20°C
Ratio of the A/B mix	4.4:1 by weight or 3:1 by volume
Specific gravity (wet)	1.41
Pot life	3 hours
Maximum overcoating time	3 days
Minimum dry film thickness	100 µm
Recommended dry fim thickness	150 µm, applied in 2 coats
Hard finish	48 hours
Full cure	7 days

Uses

- As a protective UV coating over the composite wrapping and plate bonding of the **weber.tec force** composite strengthening system
- As a sealcoat over levelling screeds
- External protective coating
- Storage areas
- Car parks
- Aircraft hangars
- Loading areas

Features and benefits

- Good chemical resistance
- UV resistance
- Does not yellow
- Can be steamed cleaned
- Can be made non-slip for wet areas
- Excellent abrasion resistance
- Does not support bacterial growth

EU VOC regulations 2008

EU limit for weber.tec PU sealcoat (cat A/j): 550 g/l (2007)/500 g/l (2010). **weber.tec PU sealcoat** contains <300 g/l VOC.

construction solutions

weber.tec PU sealcoat

Preparation

Surfaces to be treated with **weber.tec PU sealcoat** should be smooth and free of all dirt and contamination.

Any oil contamination should be removed by steam cleaning, using a detergent followed by removal of all liquid from the surface.

The areas must be allowed to dry out thoroughly. Any damaged areas should first be repaired and brought level using a suitable repair compound such as **weber.tec EP mortar**, **weber.cem pyratop** or **weber.cem pyrapatch**.

New concrete must be at least 28 days old before application and all traces of laitance, shutter release or curing membranes are removed. Maximum moisture content of prepared substrate should be 5%.

Whether used internally or externally, the concrete must be dry.

Mixing

weber.tec PU sealcoat is supplied as a two-component product.

Thoroughly mix the resin component A, using a slow-speed (450 rpm) drill and MR4-80B-type paddle. Mix up the hardener compound B in the same manner to dispel any settlement.

Pour the hardener into the pigmented resin component and stir using a low speed drill until a homogeneous mix is obtained.

Transfer to a shallow tray will help to dissipate heat in warm weather and give a longer workingtime.

Allow the mixed product to stand for 3 minutes to dispel any entrapped air.

Colours

Light grey **RAL 7035**
Mid grey **RAL 7040**

Additional colours to RAL standard can be made subject to quantity and will carry a surcharge.

Application

The ideal application temperature is 18 – 20°C.

weber.tec PU sealcoat should be applied by means of a medium lambswool roller at a uniform rate. The coating should not be applied over expansion joints.

Application rate is 4 – 5 m^2/litre.

Ensure good ventilation is available during application. Areas to be coated should be in a dust free environment.

If a non-slip finish is required, a thin dusting of dry, fine sand or grit may be sprinkled between coats. A further 24 hours should be allowed before permitting traffic.

Note: coverage is dependent upon surface roughness and porosity of the substrate. **Weber** recommends that the user carries out a trial on site to determine actual consumption of the coating.
Coverage is also different at a lower temperature and can fall to below 4 m^2/litre, as the viscosity of the coating increases.

weber.tec PU sealcoat should not be applied at temperatures below 10°C

Recommended inter-coat time is 24 hours at 20°C.

Maximum overcoating time is 3 days.

Cleaning

Clean all tools with **weber.tec solvent 3** immediately after use.

Packaging

weber.tec PU sealcoat is supplied in 6.5 kg pails, yielding approx. 4.5 litres.

Coverage

Will depend upon the flatness and porosity of the substrate and also on the ambient temperature.

Approximate coverage is 20 m^2 per 6.5 kg pail in two coats at 20°C.

See note in *Application* above.

Storage and shelf life

Store in a cool, dry conditions between 10°C and 25°C.

Shelf life in correct storage conditions is at least 6 months.

Health and safety

Polyurethane-based.

This material is polyurethane-based. Containers should be kept tightly closed when not in use.

Operatives are advised to use barrier creams and wear protective clothing including gloves and goggles or glasses.

Any contact with the skin should be cleaned with proprietary cleansing creams.
If the product enters the eye, wash immediately with copious amounts of clean water. Seek medical attention if discomfort continues.

Only mix and use in well ventilated areas. In the event of fire, use foam, dry chemical or carbon dioxide (CO_2) extinguishers.

Flash point is in excess of 100°C.

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) 722110
Fax: (01525) 718988

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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