

High build solvent free heavy duty epoxy floor coating

PRODUCT

weberfloor epobat is a two-component very low VOC, pigmented solvent-free epoxy floor coating. It is easy to apply, excellent leveling, leaving a durable seamless surface, specially formulated as heavy duty floor coating.

The product consists of pre-weighed colored resin and hardener components.

weberfloor epobat provides a hard wearing and abrasion resistant floor finish for basement, warehouses, industrial factories, ground floor car parks, traffic decks with no structural movement... Along a high resistance to chemicals and salts.

To obtain an anti-slip coated floor, the addition of fine aggregates between the first and second layer is required.

SCOPE OF USE

weberfloor epobat specially designed for a wide range of heavy duty use, with various levels of mechanical and chemical exposure.

- Indoor car parks
- Bridge decks
- Traffic decking
- Industrial floors
- Car production and workshops
- Food and beverage industry floors
- Warehouses and storage facilities
- Service stations and maintenance areas.
- Hospitals, laboratories and chemical plants
- Metal treatment plants
- Machinery service areas

ADVANTAGES

- Waterproof
- Impermeable
- Protection against oils, lubricants, greases, fuels and hydraulic acids.
- High wear, abrasion and slip resistant surface possible
- Anti-carbonation and stops chloride ion diffusion
- Hygienic, anti-bacterial and anti-fungus growth
- Suitable for use in hot and tropical climate conditions
- Solvent free providing odorless floor coat after dry
- Easy application by brush, roll or squeegee.

CHARACTERISTICS

Form	Liquid
Colors	Grey, yellow, red, ivory and others
Density A+B (ASTM D-1475) @ 25 °C	1.6 ± 0.02 kg/liter
Solid content	100% by volume



PACKAGING

Leb	Syria	Jordan	UAE	Qatar	Kuwait	KSA	Oman
24 Kg	24 Kg	24 Kg	24 Kg	24 Kg	24 Kg	24 Kg	24 Kg

Pot life (ASTM D-2471) @ 25 °C	2 hrs
setting time (ASTM D 1640-03) @ 25 °C	8 hrs.
Max over coating delay @25 °C	24 hrs.
Light traffic use after	24 hrs.
High traffic use after	48 hrs.
Full Cure time (ASTM D 1640) @ 25°C	7 days
Flexural Strength ASTM C 580-02	>30 N/mm ² after 7 days
Compressive strength ASTM C579-01	>85 Mpa after 7 days
Adhesion strength ASTM D 4541 : 09 ^{El}	>3 N/mm ²
Water absorption (ASTM D-570:98)	Nil
Shore D hardness (ASTM D-2240-05)	≥80
Tensile Strength ASTM D 638 : 14	18 ± 2 N/mm ²
Peak Tensile Load (N) ASTM D 638 : 14	431 N
VOC and formaldehyde content ISO/FDIS 11890-2/GC-MS	None (<10µg/l)
Abrasion resistance (ASTM D-4060: 01)	95 mg/1000 cycles

CHEMICAL RESISTANCE

The fully cured **weberfloor epobat** is resistant to a wide range of chemicals including the common acids, alkalis and solvents, such as Sulfuric Acid, Hydrochloric Acid, Ammonium Hydroxide, Xylene and White Spirit, as well as Diesel, Gasoline, Engine oils and detergents.

APPLICABLE STANDARDS

weberfloor epobat was tested in accordance with:

ASTM D-2471, ASTM D 1640-03

ASTM D 1640, ASTM C 580-02

ASTM D 4541: 09 E1, ASTM D 638: 14

INSTRUCTIONS FOR USE

SUBSTRATE PREPARATION

All surfaces should be clean, sound, dry, and free from grease, laitance, oil and dust. Remove all loose material. Moisture content should not exceed 5%.

New concrete should be at least 28 days old. Concrete must be crack free. Thus, any crack must be repaired prior to application with the appropriate epoxy based material according to the crack dimensions. All surfaces should be clean, dry, and free from grease laitance, oil, dust, paint and any other substance that may prevent or reduce adhesion. Remove all weak, loose, smooth or broken pieces of concrete, until reaching a sound rough concrete. This can be achieved primarily by blasting or grinding.

The prepared surface must have an average "surface tensile

adhesion strength" greater than 1MPa. Moreover, it should have CSP (concrete surface profile) of 3 to 5. Then, the substrate must be vacuumed, and primed with **weberfloor eposil plus**.

Weber does not warrant any defect due to concrete substrate movement. If any surface irregularities is noted it should be smoothed prior to the application of **weberfloor epobat**.

All existing expansion/movement joints in the substrate should be continued and maintained through the primer and top coat **weberfloor Epobat**.

Priming

If the substrate is sound, untreated, nonporous using of a primer is not normally required. If any doubts of the quality of the substrate, or it is porous it is recommended to apply **weberfloor eposil plus** for high porosity substrate or **weberfloor eposil** for low porosity substrate.

The primer should be left to achieve a tack-free condition before applying **weberfloor epobat**. A second coat of primer may be required if the substrate is excessively porous. For thick application, the primer usage is a must.

CONSUMPTION AND COVERAGE

The coverage rates are given for guidance only. Actual rates basically depend on substrate porosity, and roughness.

Coating System	DFT (micron)	Product	Consumption
Primer	125	weberfloor eposil plus	0.17 kg / m ² (The concrete surface greatly affects coverage rate)
Roller coat / Sealer	200	weberfloor epobat	0.33 kg / m ²
Anti-slip coat (very fine broadcast)	300 - 800	weberfloor epobat (1st coat) Silica sand (0.3 - 0.8 mm) (broadcasted) weberfloor epobat (2nd coat)	0.40 kg / m ² @ 250 micron 1.90 kg / m ² 0.33 kg / m ²
Anti-slip coat (fine broadcast)	500 - 1000	weberfloor epobat (1st coat) Silica sand (0.5 -1 mm) (broadcasted) weberfloor epobat (2nd coat)	0.66 kg / m ² @ 400 micron 3.50 kg / m ² 0.55 kg / m ²
Anti-slip coat (medium broadcast)	1400 - 2000	weberfloor epobat (1st coat) Silica sand (1.4 - 2 mm) (broadcasted) weberfloor epobat (2nd coat)	1.10 kg / m ² @ 700 micron 4.00 kg / m ² 0.77 kg / m ²
Anti-slip coat (coarse broadcast)	2000 - 2500	weberfloor epobat (1st coat) Silica sand (2 - 2.5 mm) (broadcasted) weberfloor epobat (2nd coat)	1.55 kg / m ² @ 1000 micron 6.00 kg / m ² 1.1 kg / m ²

PRODUCT PREPARATION

Pour Part B over Part A, mix the two parts for 2 - 3 minutes by an electric mixer with low rotation speed (< 300 rpm). **weberfloor epobat** must be well mixed to ensure proper chemical reaction. After mixing, keep the mix to rest for 2 min before the application.

Do not add solvent, water or thinner at any time during the mixing or the application.

PRODUCT APPLICATION

weberfloor epobat can be applied by using a brush, a roller, an airless sprayer or a squeegee in case of high thickness required. The first coat from weberfloor epobat should be applied with a minimum film thickness of 200 microns. When the base coat has reached initial cure (within maximum 24 hours depending on the temperature), the top coat can be applied at minimum film thickness of 200 microns.

For anti-slip surfaces, fine sand must be spread on the first coat while it is still wet. The surface is allowed to cure for at least 24 hours; the excess aggregate should be vacuum cleaned from the surface then apply the 2nd coat with a medium texture roller. Care should be taken to ensure that continuous film is achieved and all grains are completely covered and coated by the epoxy mixture. The optional slip resistant texture is provided by the range of the coarse sand selected.

Note: Don't apply weberfloor epobat if the temperature of the surface is below 5 °C or over 40 °C.

CLEANING

Tools and equipment should be cleaned with **weberfloor epo thinner** immediately after use.

STORAGE

One year after manufacturing date in its original packing non open and in dry cool area.

SAFETY PRECAUTIONS

Application should be done in a ventilated area away from any heat source. Wear protective gear for hands and eyes and avoid breathing of vapor. If mixed resin comes into contact with the skin, it should be promptly removed before hardening, followed by thoroughly washing the skin with soap and water. In case of heavy vapor inhalation, place affected person in an open-air area. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting. In all cases, seek medical attention. In case of fire, use CO2 foam to extinguish. Tightly seal containers when not in use, store them away from heat and carefully

dispose empty ones.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

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