



# weberfloor epocoat

High build solvent free heavy duty epoxy floor coating

*Flooring*

| Leb | Egypt | Jordan | UAE   | Qatar | Kuwait | KSA | Oman  |
|-----|-------|--------|-------|-------|--------|-----|-------|
| -   | -     | -      | 18lit | -     | 18lit  | -   | 18lit |

## PRODUCT

**weberfloor epocoat** is a two-component, very low VOC, pigmented solvent-free epoxy floor coating with excellent leveling and a durable seamless surface. This product is specially formulated as a heavy-duty floor coating for basement, warehouses, industrial factories, ground floors, car parks and traffic decks, with no structural movement. It is consisting of pre-weighed colored resin and hardener components. Once treated with sand, **weberfloor epocoat** provides a hard wearing and abrasion resistant floor finish.

**weberfloor epocoat** could be applied as coating or as anti-skid. For anti-skid system application, it is advisable to use Weber silica sand, **weberfloor Sil S** (0.3mm>1mm) at the rate of 0.5 to 1kg per m<sup>2</sup> approx.

## SCOPE OF USE

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

- Indoor car parks
- 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
- Long pot life
- Anti-fungal
- Excellent hiding capability
- Easy application by brush, roll or squeegee
- High wear, abrasion and slip resistant
- Solvent free providing odorless floor coat after dry
- Suitable for use in hot and tropical climate conditions
- Protection against oils, lubricants and fuels
- Resistant to a wide range of chemicals and acids

| CHARACTERISTICS                              |                                     |
|----------------------------------------------|-------------------------------------|
| Form                                         | Liquid                              |
| Colors                                       | Grey, yellow, red, ivory and others |
| Density A+B @25°C                            | 1.45±0.1kg/lit                      |
| Solid content (@25°C, 50% relative humidity) | 100% by volume                      |

|                                                                       |                  |
|-----------------------------------------------------------------------|------------------|
| Pot life @25°C                                                        | ≈55min           |
| Setting time @25°C                                                    | ≈2hrs 30min      |
| Max over coating delay @25°C                                          | 24hrs            |
| Light traffic use after                                               | 24hrs            |
| Full Cure time @25°C                                                  | 7 days           |
| Compressive strength (ASTM C579-23 @7 days)                           | 90Mpa            |
| Flexural strength ASTM C580-18(2023) @7 days                          | 50Mpa            |
| Abrasion resistance ASTM D4060 (Wheel Cs 17, Load of 1000g per wheel) | 65mg/1000 cycles |
| Pull-off load achieved of fracture (ASTM D 4541-17)                   | 3.5Mpa           |
| Shore D hardness (ASTM D 2240)                                        | 85               |
| Fungal resistance (ASTM G21)                                          | Resistant        |
| Tensile strength ASTM D412-16(2021)                                   | 21Mpa            |
| Elongation % ASTM D412-16(2021)                                       | 1.2%             |

## CHEMICAL RESISTANCE

The fully cured **weberfloor epocoat** is resistant to a wide range of chemicals and several petroleum products:

### Chemical resistance according to ASTM D543-21 & EN ISO 2812-1:2014

|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Hydrochloric Acid (50%) | No swelling, blistering or discoloration observed |
| Sodium Hydroxide (50%)  |                                                   |
| Nitric Acid (25%)       |                                                   |
| Sulfuric Acid (15%)     |                                                   |
| Sodium Chloride (10%)   |                                                   |
| Seawater                |                                                   |
| White spirit            |                                                   |
| Gasoline                |                                                   |
| Engine oils             |                                                   |
| Diesel                  |                                                   |

## APPLICABLE STANDARDS

**weberfloor epocoat** was tested in accordance with:

ASTM D-1475  
 ASTM D-2471  
 ASTM D-1640  
 ASTM C579-23  
 ASTM C580-18(2023)  
 ASTM D-4060  
 ASTM D-4541-17  
 ASTM D-2240

ASTM D412-16(2021)  
 ASTM D543-21  
 EN ISO 2812-1:2014

## INSTRUCTIONS FOR USE

### SUBSTRATE PREPARATION

All surfaces should be clean, dry, and free from grease laitance, oil, dust, paint and any other substance that may prevent or reduce adhesion. New concrete should be at least 28 days old, moreover, moisture content of the substrate should be <5%.

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 a CSP (concrete surface profile) of 3 to 5. Thereafter substrate must be crack free, thus, any crack must be repaired prior to application with the appropriate epoxy-based material according to the crack dimensions. Depending on substrate conditions, deeper ruptures and cracks must be filled with **weberfloor epopatch** (up to 3mm) and **weberfloor epolevel** (3 to 10mm), freshly scattered with sand, to increase the bonding and create a strong mechanical key (*For more details, please refer to the above-mentioned products data sheets*).

Once the substrate is well prepared, it must be dust free, preferably using a vacuum machine, prior to **weberfloor epocoat** application.

After substrate preparation, clean all joints thoroughly then apply masking tape either side of the joint to protect surfaces from primers and excess of material. Backer Rod should be pressed into the joint, allowing a sealant depth of around 1.5cm, then inserts or pour the sealant such as **weber jointseal PU** or **weber seal PS 1000 PG** into the joint.

**WARNING:** Do not wash the substrate with water at any time!

### Priming:

If the substrate is sound, untreated and nonporous, the primer application is not normally required. In case of any doubts concerning the quality of the substrate, or its porosity, applying the primer will be required.

For high porous substrates, it is recommended to apply a solvent free primer such as **weberfloor epoprime SF** or **weberfloor eposil plus**. As for low porous substrates, it is recommended to apply a solvent based primer such as **weberfloor eposil**.

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

### PRODUCT PREPARATION

Prior to mixing, inspect Part A for any visual separation. If separation is observed, mix Part A for approx. 1 minute until a uniform consistency is achieved. If no separation is observed, pour Part B over Part A and mix the two parts together for 2-3 minutes using an electric mixer with low rotation speed (<300rpm). For optimal mixing and proper chemical reaction, transfer the material into another container and remix until a uniform blend is achieved. After mixing, allow the mixture to rest for 2 minutes before application. Do not add solvent, water or thinner at any time during the mixing or the application.

## PRODUCT APPLICATION

**weberfloor epocoat** can be applied by using a brush, a roller, an airless sprayer or a squeegee where higher application thickness is required. The first coat from **weberfloor epocoat** 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 should be cured for at least 24 hours; the excess of aggregates should be vacuum cleaned from the surface then apply the 2<sup>nd</sup> 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 with the epoxy mixture. The optional slip resistant texture is provided by the range of the coarse sand selected.

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

**weberfloor epocoat** could be applied externally, however, it should be protected with at least 2 coats of a UV stable polyurethane coating, such as **weberfloor topcoat PU** or **weberfloor 220 PU**, not more than 48 hours.

## CONSUMPTION AND COVERAGE

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

**weberfloor epocoat** is 18lit pack, covers Approx. 5m<sup>2</sup> per liter @200 Microns DFT per coat.

## 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 CO<sub>2</sub> 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.

## NOTE

The information included on this Technical Data Sheet is the sole property of Saint-Gobain Middle East Holding SAL (previously SODAMCO Holding). The unauthorized disclosure, use, dissemination or copying (either whole or partial) of this data sheet or any information it contains, is prohibited and subject to legal pursuit.