

SelfFlow EP300

Self-leveling epoxy flooring system

Product Description

SelfFlow EP300 is a modified two components, solvent free, special epoxy resin based self levelling floor coating.

Areas of Application

- It is used in storage and loading areas.
- Hospitals and Pharmaceutical factories.
- Car parks and showrooms.
- Storage and assembly halls, maintenance workshops, garages, loading ramps etc.
- Beverage industry, food industry, cooling cells, galleries, maintenance hangars etc.
- Concrete or cement surfaces which bare normal-mid-heavy loads, and on water proof, dust free.
- Schools, Laboratories and changing rooms, locker rooms and rest rooms.
- Chemically resistant and requiring resistance in its final layer.



Advantages

- Excellent chemical and mechanical resistance.
- Provides hygienic floor.
- Approved for use in contact with potable water.
- Excellent resistance to mold and fungus growth.
- Non-toxic.
- Dust proof and anti-oil.
- Used as a washable epoxy paint.
- Gloss finish.
- Resistance to sewage effluents.
- Available in a wide range of attractive colors.

Disposal

Empty packages can be thrown to the collection bins according to regional-local regulations or recycling rules. After drying up and hardening the used waste material, throw it away as construction waste material. It is dangerous to dispose of product wastes by burning them.

Points to Take into Consideration

Keep the products in places out of reach of children. Always keep the cover of the products closed. It is recommended to wear gloves and goggles during operation. In case of contact of skin with the material, it should be washed with soap and water immediately. In case of contact with the eye, see your doctor immediately.

General Considerations

Above-mentioned product information and descriptions are prepared for guidance purposes as a result of our experiences and meticulous studies. The variety of related materials and their different construction and operation conditions can not be controlled or influenced by us individually. For applications beyond our control, the guarantee status is only limited to the quality of sold product. Except the manufacturing of the product, no guarantee is given for application. This technical sheet invalidates all the existing sheets. The quality of the performed job may vary depending on your professional use of the product. If you are hesitant, make a little test or get technical help.

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Technical Data

Property:	
Density	1.5 Kg/ lit
Percentage total solids	100%
Color:	Various colours on request
Thinning	none
Compressive strength To ASTM C579 &BS6319, part 2	~ 75 N/ mm ² (28 days / +23°C)
Flexural Strength To ASTM D790	~ 30 N/mm ² (28 days / +23°C)
Bond strength	> 1.5 N/mm ²
Shore D Hardness	~76 (7 days / +23°C)
Taber abrasion-test 1 kg CS 10 1000 rev. ASTM D638-98, BS6319, Part7	~80 mg
Tensile strength: To ASTM D638-98, BS6319, Part7	≥ 30 N/mm ² @ 14 days
Consumption	1.0 – 1.3 Kg/m ² with 1 mm thickness
Water and Oil absorption	None

Thickness range

Thickness = 1.0 to 3.0 mm

Method of use surface preparation

- Concrete floors must be structurally sound and fully cured a minimum of 28 days.
- Test floor for vapor drive in accordance with ASTM D 4263, ASTM F 2170 or ASTM F 2420.
- A clean surface will ensure maximum adhesion between the substrate and the coating.
- Repair concrete as necessary.
- Use a commercial degreaser to clean floors of oil, grease, and other bond-inhibiting materials.
- Remove curing and parting compounds and other surface hardeners and floor coatings in accordance with the manufacturer's instructions.
- Mechanical surface profiling is the recommended method of surface preparation for both new and existing floors.

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Priming

Concrete substrates should be primed with Ridge Epoxy Primer. The primer should be allowed to cure for 24 hours. Use lamb’s wool roller to apply the primer. More than one coat may be required for highly porous or textured surfaces.

Mixing

- To ensure proper mixing, a mechanically powered mixer of drill fitted with suitable paddle should be used.
- Stir the content of each component separately to disperse any settlement. Add the entire content of the hardener to the base and mix for 3 minutes and until uniform color and consistency are achieved.
- Once mixing is complete, transfer the SelfFlow EP300 to the primer surface at the required thickness by rack.
- Care should be taken when joining the lanes, to achieve a smooth connection. It is recommended to mask off edges with tape which is then removed while SelfFlow EP300 is still wet.
- For more than 2 mm thickness, use Modified Silicate300 Filler by 5-10 Kg for 20 Kg of SelfFlow EP300. Taking care to ensure that these are completely dry and lump-free. Continue mixing to approximately 3 minutes. (Never mix SelfFlow EP300 by hand as this could lead to areas of uncured material).

Cure details

Humidity	Temperature	Foot traffic	Light Traffic	Full cure
60%	+10 ⁰ C	16 hours	3 days	10 days
60%	+20 ⁰ C	13 hours	2 days	7 days
60%	+30 ⁰ C	10 hours	1 day	5 days

Chemical resistance

Resistance against: petrol, beer, cyclohexane, diesel, ethanol 10%, ethylene glycol, glycerine, milk, sodium chloride solution 30%, sodium hydroxide 10%, olive oil, paraffin, petroleum, castor oil, silicone oil, turpentine, water and soap. Limited resistance: butanol, ethanol, methyl isobutylketon, perchlorethylene and xylene.

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Discolouration under influence of chemicals is possible. This test is conduct at room temperature. Higher temperatures and/ or mixtures of chemicals could influence the chemical resistance.

Packaging

SelfFlow EP300 is available in 20 Kg packs (A : 16.800 + B : 3.200 Kg).

Storage

SelfFlow EP300 has a shelf life of 24 months from date of manufacture (in dry condition and room temperature) in unopened packs.

Fire

SelfFlow EP300 is nonflammable .

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