

# Floorscreed

## 3K ECC Underlay

### Description

Floor screed is a three-component water soluble epoxy modified cementitious, fine textured mortar for self-smoothing floor screeds in thin layers of 1.5 to 5 mm.

### Uses

- Floor screed is used as a self-smoothing underlay for levelling or patching horizontal concrete surfaces for new work or repairs. It's resistant to aggressive chemical environments over which regular floor coatings, tiles, sheet floors, carpets or wooden floors can be applied. It's a temporary moisture barrier for Epoxy and Polyurethane resin floors, so it can be applied on damp and green concrete.

### Key features

- Can be top coated with resin-based floors after 24 hours
- Prevents osmotic blistering of resin-based coatings over damp substrates
- Economical, Good levelling and easy application
- Impervious to liquids but permeable to water vapour
- Excellent bond to green or hardened concrete whether damp or dry
- Excellent early and final mechanical strengths
- Contains no solvents Floor screed is used as a self-smoothing underlay

### Properties

Type	: Epoxy concrete
Mixing ratio	: As per set
Mixed density ASTM D 1475	: $2.16 \pm 0.03 \text{ gm / cc}$
Pot life ASTM D 2471	: 20 - 25 min
Drying time ASTM D 1640	
Surface dry	: 1 - 2 hrs
Tack free dry	: 3 - 4 hrs
Hard dry	: 24 hrs
Recommended thinner	
Clean up	: Water

Shelf life	: 12 months in the unopened container
------------	---------------------------------------

### Performance data

Compressive strength ASTM C 109 28 days	: $\geq 55 \text{ MPa}$
Tensile strength ASTM D 638 28 days	: $\geq 6 \text{ MPa}$
Flexural strength ASTM D 790 28 days	: $\geq 20 \text{ MPa}$
Adhesion pull off test ASTM D 4541	: Concrete failure
Moisture Vapour Transmission ASTM E 96	: $60 \text{ g / m}^2 / 24 \text{ hrs}$
Water absorption ASTM D 570	: $< 1\%$

### Directions to use

Ensure that CDS (Clean, Dry & Sound) test is conducted on the concrete. Surface preparation like scarification, grinding or shot blasting is done to achieve a surface profile of 150-200 microns. Apply Aquoxy 50 as primer and allow to part-cure for 2-3 hrs. Unpack the components of Floor screed kit. In one 20 Litre bucket, pour the resin first and then add hardener under slow agitation. Now add aggregates slowly under high agitation. Use a heavy motor for stirring. Continue agitation for 2-3 mins till you get a homogeneous liquid and all aggregates are fully wetted. Lay the screed by a trowel to the desired thickness and remove entrapped air spike rolling. Allow the screed to cure for minimum 24 hrs.

### Packaging

Floorscreed is available in pre-weighed kits of 21.7 kg and has a maximum shelf life of 12 months in the un-opened containers.

# Floorscreed

## 3K ECC Underlay

---

### Storage and handling

The product should be stored in accordance with national regulations. It should be kept in a cool, well ventilated area, away from heat, direct sunlight, sparks and children. Handle with care. Mix resin and hardener as per the ratio. Use the mix solution within the pot lifetime.

### Health & Safety precaution

Please refer to MSDS. Observe reasonable care and employ ordinary hygienic principles such as washing the hands with soap and water before eating or smoking. It is recommended to wear gloves, goggles and nose masks while application. In case of splashes on the skin, dampen the cloth with thinner PUT 503 and wipe the hands with the cloth. Wash then with soap and water. Dried film is non toxic. In case of contact with eyes, rinse with plenty of water and seek medical advice. In case of continuous exposure to vapour, the applicator should be immediately moved to get fresh air. The disposal of excess or waste material should be carried out in accordance with the local legislations

### Disclaimer

All information contained in this data sheet is given to the best of our knowledge but no warranty is made with respect thereto. This data sheet becomes invalid as soon as a new edition has been published. Please contact us for latest edition. Description and advice regarding Cipy's products are based on long term field and laboratory tests carried out by us. No condition of warranty is given covering the results from the use of materials in the circumstances of any particular application, because the storage, handling and application of the materials are beyond our control

---

Ref.: CPPL/05-19/0161



### Cipy Polyurethanes Pvt Ltd

T-127, MIDC, Bhosari, Pune - 411 026

Tel. +91-20-66316400 / Fax : +91-20-66316460

Email : [info@cipypolyurethane.com](mailto:info@cipypolyurethane.com)

