

## FLORSCREED

### INDUSTRIAL EPOXY FLOORING AND LINING

#### Product Description

**FLORSCREED** is a three component system based on Epoxy resin specially designed to impart high mechanical strength and good chemical resistance to flooring systems.

The cured composition is tough, non-dusting and has excellent adhesion to variety of substrates including concrete

#### Features

##### When used for Flooring and Mortar Screeds

- Forms jointless flooring
- Non dusting and easily cleanable
- Hygienic
- Very high mechanical strength
- Excellent chemical resistance
- Hard Wearing
- Excellent antiskid properties

##### When used as lining

- Excellent adhesion to various substrates
- Faster curing
- Excellent resistance to chemicals
- Highly useful for joints of Acid/Alkali resistance Brick/Tile Lining.

#### Uses

- Automobile Industry
- Engineering Industry
- Beverages and Foodstuff Industry
- Textile and Paper Mills
- Precision Engineering
- Electronics and Electrical Industry
- Chemicals Industry
- Warehouses, Ramps, Garages and Aircraft hangers etc.
- Pharmaceutical Industry
- Also used for the coving

#### Properties

Average Film Thickness	: 3, 5 mm
Application	: Trowel
Pot Life @ 30 °C	: 20-25 mins
Compressive strength (ASTM D 695 )	: 104 MPa
Tensile strength ( ASTM C 307) :	15.2 MPa
Bond strength to concrete (ASTM D 4541) :	(Elcomete pull of test) Exceeds Tensile strength of concrete
Hardness, Shore D (ASTM D 2240) :	85
7 days curing	
Curing Time	:
Initial Cure	6-8 hours,
Full Mech. Cure	48 hours
Ready for use	To walk – 24hrs
To light traffic	48 hrs
Full Chemical Cure	7 days
Mixing Ratio	- As supplied

The values given above are average figures achieved in laboratory tests. Actual values obtained on site may show minor variations from those quoted.

#### Coverage

**FLORSCREED** : 5.25 kg/m<sup>2</sup> @ 3 mm &  
7.0 kg/m<sup>2</sup> @ 5 mm

#### Method of Application

The various components are thoroughly mixed together as per specifications and applied on clean and previously primed surface to the desired thickness by means of trowel and finish to uniform and smooth surface.

#### Inspection and Surface preparation

It is most important that substrate surface is correctly prepared prior to application.

1. New concrete or cementitious substrates should have been placed for at least 28days and have a moisture content of less than 5% before topping with **FLORSCREED** .

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2. Before application, the surface to be coated should be free from loose particles, rust, oils, grease or earlier coatings and should be thoroughly dry.
3. After surface is dry, all repair work like sealing of joints, cracks filling of cavities and crevices should be carried out.

Concrete defects such as voids, bug holes, excess porosity, and physical and chemical damage are usually filled or repaired prior to the installation of the F/C system. (Materials such as slurries, mortars, and polymer concrete are used to level, smooth and patch concrete surfaces).

The laitance (A thin, weak, brittle layer of cement and aggregate on concrete surface) on in-situ bases and any surface sealer or curing membrane should be entirely removed by suitable mechanised equipment, e.g. shot-blasting, panning or grinding, to expose cleanly the coarse aggregate.

**Old Concrete surfaces:** All surface contamination, e.g. oil, paint and rubber, should be removed and adequate mechanical preparation carried out to achieve a sound and stable surface with exposed coarse aggregate. (Existing floor paints should be removed by mechanical abrasion or contained shot blasting. When clear of all surface contamination, the concrete should be prepared mechanically to remove all laitance and expose a fresh surface).

After surface preparation all loose debris and dirt should be removed by vacuum- equipment.

#### **Priming:**

For use over a concrete surface **FLORPRIME EP** primer is recommended.

#### **Laying of FLORSCEED**

**FLORSCEED** shall be mixed and applied only by specialist flooring contractors who have been trained in the correct application procedures. Detailed method of statement is available on request.

#### **Mixing:**

Pack components are pre-weighed for optimum performance. Never split packs. Empty contents of Base into a mixing container and pre-mix to assure the suspension of solids. Add Curing Agent and continue to mix to a uniform consistency for 1-2 minutes. Add the quantity of aggregates supplied and mix for 1-2 minutes. Mix with slow speed drill and helical spinner head for 2 minutes. Avoid high speed mixing that will entrain air into the mix.

#### **Packaging**

**FLORSCEED (Base & curing agent)** is available in 6 kg pack size.

#### **Shelf life**

**FLORSCEED** has a shelf life of 12 months if kept in warehouse conditions at 30°C in the original, unopened pack.

#### **Storage conditions**

Store in dry conditions between 5°C and 30°C, away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperatures the shelf life will be reduced

#### **Handling & Safety**

Keep the containers tightly sealed when not in use. Avoid skin contact and inhalation of fumes (if any). While spraying it is advised to wear a mask. If it comes in contact with the body, wash affected parts with plenty of water. In case of persistent irritation, contact a physician.

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