

## ACF EPO SCREED

Three component multi usable epoxy Floor Screed

### Description

ACF EPO SCREED is three component solvent free abrasion resistant flooring laid by trowel. ACF EPO SCREED is extremely tough, durable, slip resistant and is ideally suited for areas subjected to high impact, high abrasion, forklift movement and areas exposed to chemicals and oil spillage. ACF EPO SCREED can be coated with functional self-levelling Coating system in order to give an aesthetic finish as well as for hygienic purpose.

### Application.

- Fertilizers and petrochemical plants.
- Car parking areas
- Bottling plant, Power houses, Pharmaceutical Industries, Paper mills / Textile Mills, Diaries & breweries, Automobile plant.
- Production line areas like processing plants, storage areas, loading bays, etc
- Effluent treatment plant lining.
- Used as coving material on the wall and floor joints
- Can be used as Epoxy mortar to fill pot holes and wider cracks on the floors.

### Advantages

- Resists abrasion / chemicals, including acids and alkalis.
- Excellent bond to concrete. Extremely durable.
- Resists impact load.
- Provides good gripping surface to both vehicular and pedestrian traffic. (Needs to be coated with Epoxy coatings for better aesthetic purpose)

### Typical properties

Pot Life, Minute @ 30 °C	40 – 50
Curing Time	
• Foot Traffic	24 Hrs
• Vehicle Traffic	48 Hrs
• Full Cure	7 Days
Compressive Strength, N/MM <sup>2</sup>	60
Coverage	6.6 Kg/ sqmtr for 3 mm thickness
Minimum thickness to be applied	3mm
Maximum thickness to be applied	5 mm

### Limitaions:

ACF EPO SCREED can be applied in between 3 – 5 mm only

The applied system needs to be coated with functional epoxy/PU coatings for aesthetic and hygienic purpose

Cannot be applied for Wall

### Application Methodology

Surface Preparation

- Prepare the surface by mechanical grinding or other suitable method.
- Remove dust, flakes, oil, grease or other loose foreign particles by sand blasting, iron brush or compressed air. Remove old painting using surface grinder.
- For best bond, concrete surface must be slightly textured.
- Any cracks must be treated properly. The cracks needs to be cut open in Vgroove shape and then remove the dust and debris from it. Then prime the grooves. The wider cracks (More than 2 mm can be repaired using ACF EPO SCREED itself. For smaller cracks, apply smooth three or 2 part epoxy putty.
- Allow it to dry before priming. (Ensure that the moisture in the substrate is less than 5% and also ensure that there is not raising moisture or any other source of water leakage such that the substrate gets saturated with water).

### **Mixing**

- Pour the Component A (Resin part). Then add Comp B (Hardener part) slowly into it whilst mixing.
- Mix the component A (Resin) & B (Hardener) thoroughly by using speed drill mixer with a spiral type blade at the bottom of stirrer rod. The speed may be 1000 rpm till homogeneous mix is obtained.
- After ensuring proper mixing of liquid components, then add component C (Filler) slowly, ensuring complete dispersion. After all of component C has been added, mix for a minimum of 5 to 10 minutes.
- After stirring, wait for the product to settle in order to let entrapped air escape. Before application

### **Application of Material**

- Prime the concrete surface with ACF EPO PRIMER HB/Epoxy Primer
- After application of the primer place the mixed ACF EPO SCREED on to the wet primed area and spread the material as per the coverage required (Ensure that the coverage is maintained properly for required thickness
- However, please note that the coverage may vary depending upon surface conditions.
- After spreading the screed on to the floor, apply by applying sufficient pressure to compact the screed.
- Application may be done using steel flat trowel or by power float
- It is better to apply large area in panel wise. The width of the panel may be 1 mtr and length upto the end of area. To ensure uniform thickness, steel bars may be used of desired thickness at both the ends of the panel selected for application
- After application this bar must be removed. The same bar can be cleaned and reused.
- Alternatively, if Power float is used, then after proper spreading the area as per coverage may be all sufficient and bars may not be required to maintain thickness.

NOTE: During application there are high chances of steel trowel getting thicker and finishing may not be proper. In such cases it is advisable to clean the flat portion of trowel with suitable solvent to ensure better finishing,

### **Sealing of Epoxy Screed**

- 1) The applied screed must be sealed properly to fill the porosity
- 2) If any conventional top coats are being applied, then the surface must be sealed with smooth epoxy putty.
- 3) Allow the putty to dry.
- 4) Grind the areas wherever excess putty to smoothen the area for overcoating.
- 5) After ensuring that the surface is levelled and sealed, then clean the area and make it dust free prior to coating
- 6) If the rough finish is required then the applied dried screed may be coated with Epoxy coating in two coats to seal the screed and also to get aesthetic beauty.
- 7) If any conventional coating is not applied, however the porosity of the screed may be properly sealed using suitable epoxy or PU sealer.
- 8) This is required since if the screed is not properly sealed then water may get penetrated into the system, thereby weaken it and may lead to debonding

### **Cleaning & Maintenance**

Clean all tools immediately after use with Xylene. Do not allow the material to harden.

### **Health & Safety**

- Avoid contact with skin / eyes, and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

### **Packing**

Available in 20 kg Kit consisting of pre-weighed Comp. A, Comp B and Comp C.

### **Storage**

Store in a cool dry place, under shed, away from heat and direct sunlight

### **Shelf Life**

12 months in original unopened sealed condition when stored as above

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*Note: The initial controls of our product are made during the production phase. We guarantee the quality of our products. All recommendations and instructions on the data sheet are generally based on our experience. Please contact us for applications on special surfaces are not mentioned in the datasheet. Our company reserves the right to update the information on the data sheet in case of technical needs without notice.*

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