

ShaliFloor® 3 ES

Three Component Chemical & Abrasion Resistant Epoxy Screed



Description

ShaliFloor® 3 ES (Formerly known as ShaliScreed / ShaliScreed 2000) is three component solvent free abrasion resistant flooring laid by trowel. **ShaliFloor® 3 ES** 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. **ShaliFloor® 3 ES** provides excellent bond to concrete surfaces and can be incorporated in the design of new floors or as an overlay to existing floors to protect it against impact and corrosive effect to chemicals.

Characteristics

Pot Life, Minute @ 30 °C	40 – 50	Curing Time	
Compressive Strength, N/MM ²	60	• Foot Traffic	24 hrs
Bond strength to concrete, N/MM	3.0	• Vehicle Traffic	48 hrs
Theoretical Coverage, / 20 kg *	1.8 m ² , 5 mm thickness	• Full Cure	7 days
Flexural Strength, N/MM ²	25	Shrinkage	Nil
Tensile Strength, N/MM ²	8.5	Thickness, mm	3 – 6

* Depending upon surface condition.

Chemical Resistance

Hydrochloride Acid 10%	Excellent	Sulphuric Acid 10%	Excellent
Phosphoric Acid 30%	Excellent	Nitric Acid 10%	Good
Sodium Hydroxide 30%	Excellent	Ammonia	Excellent

Application

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

Advantages

- Resists abrasion / chemicals, including acids and alkalies.
- Excellent bond to concrete. Extremely durable.
- Resists impact load.
- Provides good gripping surface to both vehicular and pedestrian traffic.

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.
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- For best bond, concrete surface must be slightly textured.
- Allow it to dry before priming.

➤ Material Preparation

- Mix **ShaliFloor® 3ES** 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. 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.

➤ Application of Material

- Prime with ShaliPrime 2E in case of concrete and ShaliPrime Zn R in case of metal surface.
- Apply mixed **ShaliFloor® 3ES** on primed surface immediately.
- Pour the mixed material on the floor and spread it over the calculated area using steel trowel.
- Compact the material by tamping with a wooden float.
- Finish off by trowelling with steel trowel to a smooth finish.
- Anchor the screed mortar near floor to wall joints, around columns & foundations & at edges of trenches, gutters, bays & expansion joints.
- To ensure uniform thickness, the mixed materials should be spread out between temporary screeding bars used as shuttering. After application is completed, bars can be removed, cleaned and reused.

Coving

NOTE: After application of **ShaliFloor® 3 ES / ShaliFloor® 3 ES 2M**, it has to be sealed with sealer coat or ShaliFloor TC 2HBE. ShaliFloor SLTC 3E can also be applied as topping

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 packaging.

Storage

Store in a cool dry place, under shed, away from heat.

Shelf Life

12 months in original unopened sealed condition.



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GARA (Grouts & Admixtures)
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