

ShaliFloor® SL PU

4K PU Dispersion Based Self-Leveling Cement Slurry Flooring



Description

ShaliFloor® SL PU is a four component, medium duty, self-leveling flooring system with dispersed PU based cement-filler slurry producing a smooth matt surface finish having 4-6 mm thickness.

ShaliFloor® SL PU has excellent chemical resistance and provides smooth, even and easy to clean monolithic, seamless surface.

Characteristics - Physical

Colour	Cream, Terracotta, Buff, Green & Blue	Abrasion resistance, mg/1000 cycles	< 50
Compressive strength, N/mm ² (BS 6319: Part 2)	50 ± 5	Theoretical Coverage*, kg/m ² /1 mm thickness	1.9
Density, kg / m ³	1920	Service temperature, °C	-20 to 100
Pot life, minute	15		

* Depending upon surface condition.

Characteristics - Technical

Property	Standard	Result
Tensile strength, N/mm ²	ASTM D-412	7 ± 0.5
Flexural strength, N/mm ²	ASTM D-790	15 ± 1.5
Hardness after 3 days, Shore D	ASTM D-2240	> 80

Application

- Textile and film plants.
- Food and beverages production.
- Confectionary production.
- Warehousing and storage.
- Electronic component manufacturer & assembly.
- Pharmaceutical production.
- Chemical plants.

Advantages

- Fast application and rapid access.
- Hygienic and safe.
- Durable and long life.
- Excellent chemical resistance.
- Provide smooth, even and easy to clean joint less surface.

Application Methodology

➤ Surface Preparation

- Remove all loose gravel, dirt, oil, grease and foreign matter by jet of dry air and clean the surface mechanically or by grinding to make it smooth before application.
- A damp proof membrane is essential where rising moisture may cause a delaminating of the **ShaliFloor® SL PU** from concrete.

- Concrete and other cementitious substrates must have minimum tensile (pull-off) strength of 1.5 N/mm² in order to ensure that failure of the substrate does not occur before acceptable bond stress has been reached. Minimum compressive strength should be 25 N/mm² of the concrete substrate.
- In order to produce the good bond between the substrate and the floor topping the substrate shall be prepared by mechanical means using captive shot blasting machine or mechanical scarifier.
- After substrate preparation by mechanical means the surface should be inspected to measure surface soundness. Any weak or suspect patches must be removed.
- Substrate must be free from dust & loose particles. Vacuum cleaning should be used to remove dust and loose particles.
- All traces of contaminants, including oils, fats, greases, paint residues, chemicals, algae and laitance, should be removed prior to starting surface preparation.
- Concrete and other cementitious substrate must be visibly dry before application of the floor topping.
- Surface defects exposed during surface preparation viz. shrinkage cracks, blow holes, minor honeycombing, minor damage to joint etc. shall be filled with **ShaliFloor® SL PU**.
- Every 4 to 5 m² along length and breadth and at the termination Groove cutting is essential Groove must be double the size of the thickness of the **ShaliFloor® SL PU**.

➤ **Material Preparation**

- Mix Resin, Catalyst and Hardener thoroughly with help of drill mixer till homogenous coloured mix is obtained.
- Gradually add the Filler while mixing continues; mix until the aggregate is thoroughly dispersed and the mix become uniform, typically 3-5 minutes.

➤ **Application of Material**

- In case where hygiene or aesthetic is desired, prime the prepared concrete surface with a scratch coat (1.9 kg / m²) of **ShaliFloor® SL PU**.
- Spread prepared **ShaliFloor® SL PU** to the desired thickness (3-5 mm) with steel trowel. Pass a spiked roller through the material to assist flow and release any entrapped air.
- Allow **ShaliFloor® SL PU** to fully cure for 7 days before exposing it any chemical.
- Do not expose the applied surface to sun light for at least 24 hrs.
- Do not push the roller more than 10 cm into the mix.
- Do not allow any activities or traffic for at least 24 hrs. In case of lower temperature more time will be required.

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 pre-packed system of 20.7 kg consisting of:

Pigmented Resin	: 3.00 kg
Hardener (Activator)	: 3.00 kg
Filler (Powder)	: 14.00 kg
Catalyst	: 0.7 kg

Storage

- Store in a cool dry place under shed away from heat above 5°C and away from direct sunlight.
- Component A and Component B must be protected from frost and if frozen to be discarded.

Shelf Life

12 months in original unopened sealed condition.



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Product Range

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- Road Surfacing
- Sealants and Additives
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