

FLOORBOND SL1

A High-Gloss, Self-Smoothing Epoxy Flooring



PRODUCT DESCRIPTION

FloorBond SL1 is a highly glossy, self-leveling epoxy floor finish is applied at a 1mm thickness for dry process areas experiencing medium-duty traffic. FloorBond SL1 Resin is a modified epoxy resin and FloorBond SL1 hardener is liquid cycloaliphatic amine-based curing agent. The system offers medium pot life, good wetting ability, high gloss and abrasion resistance floor top coatings. It offers a tough, non-porous, colored surface that is resistant to chemicals and easy to maintain, ensuring a hygienic environment.

USES

- Pharmaceutical
- Electronic
- Aerospace
- Automotive
- Printing Plants
- Clean rooms
- Car parks and garages

FEATURES & ADVANTAGES

- Solvent Free
- Hygienic
- Easy to Clean
- Hard-Wearing
- Chemically resistant
- Attractive

APPLICATION METHOD

SUBSTRATE REQUIREMENT

Concrete or screed substrate should be a minimum of 25N/mm², free from laitance, dust and other contamination. The substrate should be dry up to 75% RH as per BS8204 and free from rising damp and ground water pressure.

APPLICATION

The application specimen must be dry & free from all surface contamination like oil, grease, dirt and other loosely adhering materials.

Mix components as per ratio as follow:

Resin (5 Kg): Hardener (2.5 Kg): Silica Filler (200-300 Mesh) (10 Kg)

Stir the resin thoroughly. If settling is detected, use stirrer and ensure that resins is proper dispersed before mixing with hardener and filler. To avoid air bubbles, it is very significant to pierce the coating with a spiked roller when desired film thickness is achieved.

Conditions during application:

The temperature of the substrate should be minimum 10 °C and humidity should not more than 80%. Good ventilation is usually essential in confined areas to ensure appropriate drying. The moisture content in the substrate should not exceed 4 % (by weight).

The product can be applied by as following process:

Mixing of resin & hardener part using a slow-speed drilling machine fitted with appropriate wing paddle. Add entire filler quantity within one to two minutes. Mix well to obtain homogeneous consistency. Keep the mixing time same for all batches to ensure a uniform colour when the product is applied. Application to be done by expert with help of a trowel to the desired thickness. Roll the coating with spiked roller to expel air and achieve a smooth finish. Continue rolling until all air is released but well before the material starts to stiffen.

CLEANING & MAINTENANCE

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent.

TECHNICAL DATA

PROPERTY	RESULTS
Volume solids	100%
Colour Range	Various Colours
Finish	Gloss
Slip Resistance	Dry>40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)
Mixing Ratio (R:H)	100: 50
Thermal Resistance	Tolerant up to 60°C
Water Permeability	Nil – Karsten test (impermeable)
Abrasion Resistance	90 mg loss per 1000 cycles
Compressive Strength	Min 580 Kg/ cm ²
Flexural Strength	Min 390 Kg/ cm ²
Tensile Strength	Min 210 Kg/ cm ²

Bond Strength		Greater than cohesive strength of 25 N/mm ² concrete. >1.5 MPa	
Toxicity		Taint free to sensitive foodstuffs	
Speed of Cure	10°C	20°C	30°C
Light Traffic	36 h	28 h	24 h
Full Traffic	72 h	48 h	36 h
Full Chemical Cure	12 d	7 d	6 d

COVERAGE ON CONCRETE

15-18 Sq. meter/kit (1 mm thickness on Ideal Surface)

PACKAGING

(17.5 Kg kit)

Resin-5 kg

Hardener -2.5 Kg

Filler -10Kg

SAFETY

Wear personal protective equipment (PPE). Avoid contact with the eyes and skin. In case of direct contact, it should be washed off immediately with warm water. Avoid breathing vapours, mist or gas. Please refer to the Safety Data Sheet.

STORAGE

Store in a cool dry shaded area.

SHELF LIFE

The shelf life for both products Resin and Hardener is 12 months from date of manufacturing.

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