

FLOORBOND SL UNDERLAY

Solvent Free Epoxy Floor Self-Leveling Screed



SCOPE

A solvent-free epoxy floor self-leveling screed designed for application at a thickness of 1-3mm, ideal for addressing surface imperfections and unevenness on concrete substrates. This screed forms a solid foundation for the subsequent application of the self-leveling top coat, positioned between the floor coating primer and the final self-leveling finish, delivering exceptional compressive strength and abrasion resistance.

USES

FloorBond SL Underlay is recommended for regions where significant load-bearing movement is anticipated. It is suggested for concrete and masonry substrates that require resistance to heavy mechanical loads and high abrasion. Applying a 1-3mm screed layer is advised before proceeding with floor coating finishes.

TECHNICAL DATA

PROPERTIES	RESULTS
Type	Three Packs
Composition	Solvent Free Epoxy Polyamine
Application	Notch trowel
Recommended DFT	1 to 3 mm Thickness
Volume Solid	100%
Mixing Ratio	Base: Hardner: Aggregates = 2:1:9 (w/w/w)
Pot Life	30 minutes @ 30°C
Theoretical Spreading Rate	2.0 Kg/ m2 /mm

Drying Time	Surface dry- 4-6 hrs. [depends on thickness] Hard dry- 24 hrs. Full Cure- 7 Days foot traffic after one day
Color	Characteristic color of aggregates
Thinner/Cleaner	Thinner 844 (for cleaning of tools; not for mixing with product)
Finish	Smooth and matt
Compressive Strength	50 N/mm ²
Flexural strength	30 N/mm ²
Tensile strength	10-15 N/mm ²
Pull-off bond strength	2.5 N/mm ²
Shore-D hardness	55
abrasion resistance	55 mg wt. loss

SUBSTRATE PREPARATION

The concrete substrate should be fully cured, dry, structurally sound, and free of any contaminants. It must be devoid of substances such as curing compounds, sealers, oil, grease, dust, salts, and similar impurities. Surface preparation must adhere to SSPC SP 13 standards, utilizing appropriate tools to remove contaminants, laitance, loosely bonded concrete, and dust through mechanical, chemical, or thermal methods. Any weak concrete should be removed, and all voids or dents should be repaired. Cracks, dents, and voids, depending on their size and depth, must be filled with epoxy putty or epoxy mortar after the application of a primer.

Cohesive strength/ pull-off strength of concrete should not be less than 1.5 N/mm². Compressive strength should be to minimum 25 N/mm². FloorBond SL Underlay is better applied over FloorBond Prime for enhanced adhesion. The finish, FloorBond SL Top Coat is applied after overnight drying of FloorBond SL Underlay.

APPLICATION GUIDELINES

Ambient temperature should be between 15°C-35°C. Relative humidity during application should not be more than 80%. Substrate moisture content should be lower than 5%. The base should be initially stirred to uniform consistency using a slow speed stirrer.

The two packs consisting of base and Hardner should be mixed in the ratio of 2:1 (w/w), by adding the contents of Hardner to the base with a slow speed drill fitted stirrer with a proper mixing paddle, then add the aggregates and continue to stir uniformly to get a homogeneous mix. No thinning has to be done for application of floor screed. Application is suggested by steel trowel to spread the material uniformly to the desired thickness on the primed substrate. Compact the screed flooring with wooden float if required. It is suggested to work in lanes of 2-3 feet for effective trowelling.

Application of FloorBond SL Coating is done, after ensuring that all high spots, undulations, trowel marks are properly rubbed down and leveled by mechanical means and cleaned from dust and debris.

PACKING

(80 Kg Kit)

Resin – 20 kg

Hardner – 10 kg

Filler – 50 kg

STORAGE LIFE

Up to 12 months as long as the sealed containers are kept in a cool dry place (10°C to 35°C) and in original unopened containers.

PRECAUTIONS

All existing expansion joints, movement joints should be followed through the new floor surface. Joint sealant and geometry should be compatible with the applied floor type. Ensure substrate free of contaminants and solvents after surface preparation and over a primed and hard substrate. As a general precaution forced ventilation should be provided when applying coating in confined spaces. Inhalation of solvent vapors, or coating mist and contact with skin or eyes should be avoided. Safety precautions as with any epoxy compounds should be adhered. Refer MSDS and health and safety guidelines. Freshly applied floor screed should be free from water, dampness, condensation, and other contaminants settling down before dry and cure, till application of finish coat.

Highbond Coatings Pvt Ltd

Sr. No. 70/2B/1, Flat No 101 & 102,
Purushottam Villa, Vadgaon Bk,
Pune – 411041

Tel: +91 9370953995

Mail: info@highbondcoatings.com