



FLOOR COATINGS

Epilux Floor Screed

Scope

Solvent free epoxy floor screed, suitable for application at 3-5mm thickness, intended for covering surface imperfections and unevenness on concrete substrates. It provides a proper base for application of the self leveling top coat and gets sandwiched between the floor coating primer and self leveling finish to impart very high compressive strength and abrasion resistance.

Uses

Screed application is normally recommended for areas where high load bearing movement is envisaged. Heavy mechanical load and high abrasion resistance requirements of concrete and masonry substrates are suggested with a built of 3-5mm screed, before going in for floor coatings finishes.

Product data

Type	Three Pack
Composition	Solvent less epoxy
Application	Masonry trowel
Recommended DFT	3 to 5mm thickness
Volume Solid	100%
Mixing Ratio	Base: Hardner: Aggregates = 2:1:20 (w/w/w)
Pot Life	30 minutes @ 300C
Theoretical Spreading Rate	6.6Kg/ m2 [3mm]; 9Kg/m2 [4mm]; 11Kg/m2 [5mm]
Drying Time	Surface dry: 4-6 hrs [depends on thickness], Hard dry: 24 hrs; Full cure: 7 days foot traffic after one day.
Colour	Sandy-brown
Thinner/Cleaner	Thinner 844 (for cleaning of tools, not for mixing with product)
Finish	Sandy-matt
Packing	23Kgs (combined pack)
Storage Life	Upto nine months as long as the sealed containers are kept in a cool dry place (100 to 350C) and in original unopened containers.

Physical Test data

Test parameter	Test method	Test results		
Compressive strength	IS 9162-1979	60N/mm ²	30N/mm ²	10-
Flexural strength	IS 9162-1979	15N/mm ²	1.8-	2N/mm ²
Tensile strength	ASTM D 2370-1973	(concrete failure)		
Pull-off bond strength	ISO 4624	70		
Shore-D hardness	DIN 53505	80mg wt loss		
Taber abrasion resistance	CS-17; 1Kg load; 1000cycles			

Data sheet 206
Apr-09

Epilux Floor Screed

Substrate preparation

Concrete substrate must be fully cured, dry, sound and clean. It shall be free from other contaminants, such as curing compounds, sealers, oil, grease, dust, salts etc. The guideline standards for preparation of concrete is as per SSPC SP 13; Cleaning with required tools to free of contaminants, laitance, loosely adhering concrete, dust by mechanical, chemical and or thermal methods. Weak concrete must be removed. All voids, dents are to be repaired. All cracks, dents and voids depending on the size and depth should be filled with epoxy putty or epoxy mortar after priming. Cohesive strength/ pull-off strength of concrete should not be less than 1.5N/mm². Compressive strength should be to minimum 25N/mm². Epilux Floor Screed is better applied over Epilux Floor Primer for enhanced adhesion. The finish, Epilux SL GFC is applied after overnight drying of Epilux Floor Screed.

Application guidelines

Ambient temperature should be between 150-350C. 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 homogenous 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 Epilux SL Glossy Floor Coating is done, after ensuring that all high spots, undulations, trowel marks are properly rubbed down and levelled by mechanical means and cleaned from dust and debris.

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 vapours, 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.

Painting Systems

Product	Coat	Thickness
Epilux Floor Primer	one	40 microns
Epilux Floor Screed	one	3mm to 5mm as per specification
Epilux SL Glossy Floor Coating	one	0.5 mm to 5mm as per specification

DISCLAIMER

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Data sheet 206
Apr-09

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