BERGER Protecton PROTECTIVE COATINGS

FLOOR COATINGS

Epilux SL Glossy Floor Coating

Scope

Self leveling high performance glossy top coat based on epoxy resin reinforced with aggregates. The product is available in assorted shades for application at different thickness ranging from 0.5 to 3.0 mm depending on service requirements

Uses

Recommended for industries like chemical, pharmaceutical, clean rooms, food processing areas, laboratories, demonstration and training rooms, tool rooms, electrical and electronics assembly plants, packing and storage areas, automobiles show rooms, production areas, car parks etc.

Product data

Type	Two Pack (aggregates/ colourants extra as required)
Composition	Solvent less epoxy
Application	Serrated trowel and spiked roller
Recommended DFT	500 microns to 3mm thickness
Volume Solid	100%
Mixing Ratio	Base: Hardner = 3:1 (w/w); no aggregates for 500microns; Aggregates for 1mm, 2mm & 3mm are added at ratio of 1,1.5 or 2 respectively
Pot Life	30 minutes @ 300C
Theoretical Spreading Rate	0.7Kg/ m2 [500microns]; 1.6Kg/m2 [1mm]; 3.2Kg/m2 [2mm]; 4.8Kg/m2 [3mm]
Drying Time	Surface dry: 4-6 hrs [depends on thickness]; Hard dry: 24 hrs; Full cure: 7 days foot traffic after three days
Colour	Assorted shades as per IS/RAL series
Thinner/Cleaner	Thinner 844 (for cleaning tools; not for mixing with product)
Finish	Glossy
Packing	16Kgs [base&hardner]; aggregates extra [4Kgs for 1mm], [6Kgs for 2mm], [8Kgs for 3mm]
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 containiers.

Physical Test data

Test parameter	Test method	Test results
Compressive stength	IS 9162-1979 IS 9162-1979	50- 65N/mm2 20-25N/mm2 10-15N/mm2
Flexural strength	ASTM D 2370-1973	1.8- 2 (concrete failure)
Tensile strength	ISO 4624 [N/mm2]	70
Pull-off bond strength	DIN 53505	90
Shore-D hardness	ASTM D 523 CS-17; 1Kg load; 1000cycles	60mg wt loss
Gloss at 600 angle Taber abrasion resistance		

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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 Primer should be applied and fully dried. Surface leveling may if required be done using Epilux Floor Screed for thickness from 3mm to 5mm. Epilux SL GFC is applied after overnight drying of primer/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 consistancy using a slow speed stirrer.
The two packs consisting of base and hardner should be mixed in the ratio of 3:1 (w/w), by adding the contents of hardner to the base with a slow speed drill fitted stirrer with a proper mixing paddle and then add the aggregates as required for the respective thickness and continue to stir uniformly to get a homogenious mix. No thinning has to be done for application of floor coating finish. Application is suggested by serrated trowel of respective depth in relation to thickness of SL floor coating and to ensure no air entrapment in the cured film, spiked roller to be used while film is wet and within the working pot life. Do not over spike as it may lead to orange peel like effects.

Precautions

Not recommended for application on surfaces known or likely to have rising dampness or thermal shocks. 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 ventillation 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.

Painting Systems

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

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