

PRODUCT SPECIFICATIONS

Product Description

Self-levelling epoxy specially designed as a tough heavy duty coating for the reinforcement and protection of concrete floors. With addition of aggregate, this product can be applied as Epoxy Mortar using Trowel

Design Feature

- Excellent flow and levelling characteristics
- Provides hygiene and dust free environment
- Hard wearing and chemical resistance
- Fast curing. Allows foot traffic within 24 hours and heavy traffic within 3 days.
- Excellent resistance to spillage of chemicals.
- Environment friendly, non-toxic, Low VOC coating. Suitable for use in the food industry

Physical Data

Volume solids	:	100 %
Application Thickness	:	1-2 mm (as Self-levelling, without Aggregates) 4-5mm (as Epoxy mortar, with aggregate)
Theoretical Coverage	:	0.5 m ² /litre @ 2mm dft as self-levelling, without aggregate 0.5 m ² /litre @ 2mm dft as self-levelling, without aggregate
Finish	:	Gloss
Colour Range	:	Refer to Colour Card
No. of Components	:	Two (as self-levelling), Three (as Epoxy mortar)
Mix Ratio	:	Base : Hardener = 3.5 : 1.6 (by volume)-as self-levelling Base : Hardener : Aggregate = 2.69 : 1.22 : 25 (by wt)-as Mortar
Pot Life @ 25°C	:	30 minutes
Standard packing size	:	5 lit & 20 lit (Self levelling), 28.9kg (Mortar)

Mechanical Properties

Compressive Strength	:	51 MPA (ASTM C 579)
Flexural Strength	:	12 MPA (ASTM C 580)
Tensile Strength	:	8 MPA (ASTM C 307)

Mixing

Apcoflor 5000 SL flooring is supplied in 3 pre-weighed packs (Base, Hardener and Aggregate) which are ready for immediate on-site use. Part mixing of these components is not acceptable and will affect both performance and appearance of the finished floor.

A suitable power driven mixer such as a bucket mixer is recommended for uniform mixing of the screed material. Stir the base and hardener separately. Blend the aggregates in the bag. Mix hardener gradually into the base under continuous stirring. Mix the aggregates into the mixed resin portion uniformly under continuous mechanical agitation. Mix well for 3-4 minutes till the components become homogenous. Apply after induction time and before expiry of pot life.

Application Method

Apply Epoxy mortar onto the Epoxy primer whilst the primer is still tacky. Pour the mixture onto the primed surface and spread evenly with steel trowel.

This product should only be applied by skilled applicators. Improper use of this product and poor application and compacting technique may result in poor strength or other defects.

Drying Time

Ambtient Temperature	Hard Dry Time	Minimum time to commence		Overcoating Interval	
		Foot Traffic	Vehicle Traffic	Min.	Max.
15 °C	12 hours	36 hours	4 days	12 hours	4 days
25 °C	8 hours	24 hours	3 days	8 hours	3 days
35 °C	6 hour	16 hours	3 days	6 hours	3 days

* The minimum curing temperature required for this product is 8°C

Useful Information

THINNER	:	Not required
CLEANING SOLVENT	:	SOLVALUX 7-77
FLASH POINT	:	90°C (Base), 130°C (Hardener)
STORAGE REQUIREMENTS	:	Store in a cool, dry area away from direct sunlight

Surface Preparation

The service life span and the service performance of this product are directly related to the degree of surface preparation.

- New concrete should be left for 28 days to cure before coating.
- The concrete should be prepared by shot/grit blasting or scrubbling to provide for a rough surface profile.
- Blowholes and other defects in the concrete should be filled with suitable solventless epoxy filler.
- The surface to be coated should be sound, dry and free from all foreign matter such as dirt, dust, oil and grease.
- Apply a coat Apcoflor 1000 primer to seal the concrete surface prior to application of Apcoflor 5000 SL.
- For application over aged epoxy flooring, thorough sanding is required. All loose and flaking coatings should be taken back to a firm edge.

Product Use Restrictions

- This product should only be applied by skilled applicators. Improper use of this product and poor application technique may result in poor strength and surface defects.
- This product is not suitable for application at temperatures below 8°C.
- Apcoflor 5000 SL provides excellent resistance to spillages of a wide range of chemicals. However, all spillages should be removed as quickly as possible and the affected surface washed down with water.

Safety Precaution

- Avoid contact with eyes and skin. Wear suitable protective clothing such as overalls, gloves and goggles. Use a dust mask if applying by spray.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray.
- This product is flammable. Keep away from sources of ignition. Do not smoke. Take precautionary measures against static discharge. In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.

First Aid

Eyes	:	In the event of accidental splashes, flush eyes with warm water immediately and seek medical advice.
Skin	:	Wash skin thoroughly with soap and water or approved industrial cleaner. Do Not Use solvents or thinners.
Inhalation	:	Remove to fresh air, loosen collar and keep patient rested.
Ingestion	:	In case of accidental ingestion, DO NOT INDUCE VOMITING. Obtain immediate medical attention.

For further safety information, please refer to our **Material Safety Data Sheet (MSDS)**

The information provided on this data sheet is not intended to be complete and is provided as general advice only. It is the responsibility of the user to ensure that the product is suitable for the purpose for which he wishes to use it. As we have no control over the treatment of the product, the standard of surface preparation of the substrate, or other factors affecting the use of this product, we are not responsible for its performance nor would we accept any liability whatsoever or howsoever arising from the use of this product unless specifically agreed to in writing by us. The information contained in this data sheet may be modified by us from time to time, and without notice, in the light of our experience and continuous product development.

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