

Technical Data Primers and Ancillaries

Apcoflor MFP 140

Two Pack, High Solid, Solvent Free, Moisture Insensitive Epoxy Resin Based Floor Primer

Product Description

- Designed as a solvent free primer for damp concrete surfaces.
- Good penetration and sealing properties.
- Suitable primer for the entire Apcoflor top coat series.
- Provides excellent adhesion between concrete surface and epoxy top coating.
- Good bonding with old and new concrete surfaces that are sound.
- Good chemical resistance.

Designed Use

- As a primer coat for green concrete.
- Suitable primer for low temperature application.

Physical Data

Volume Solids (Based on ASTM D2697)	: 100
Typical Dry Film Thickness	: 200 – 250 microns
Wet Film Thickness	: 200 – 250 microns
Theoretical Coverage	: 4.50 m ² /kg @ 200 microns DFT 3.60 m ² /kg @ 250 microns DFT
Colour	: Clear
Finish	: Gloss

Application Details – Method Of Application

The product should be spread immediately after mixing without any induction time. It is suggested that the product be applied by stiff brush for better penetration. The coverage would vary significantly based on the nature of the concrete surface. On porous surface where the primer is absorbed quickly leaving dry patches, a second coat is recommended. A minimum dft of 200 – 250 microns is recommended. Primer should not be applied on standing or running water. Second coat application must be done when the primer is tacky.

	Ambient Temperature	Touch Dry	Hard Dry	Full Cure	Re coating Interval		Pot Life
					Minimum	Maximum	
Drying time	25°C	4 hours	16 hours	10 Days	10 hours	10 Days	50 Minutes
	35°C	3 hours	10 hours	7 Days	8 hours	5 Days	30 Minutes
	45°C	2 hours	7 hours	5 Days	5 hours	5 Days	20 Minutes

No. of Components	Two
Mixing Ratio	As per pack size
Induction Time	Nil (Apply immediately after mixing)
Recommended substrate moisture level	15% (Max.)
Application Conditions	Do not apply this product if the relative humidity exceeds 85%

Additional Information

Thinner/Cleaning solvent	: Solvalux 7-45
Storage Instruction	: Store in a cool shaded dry area
Flash Point	: Mixed less than 28°C
Packaging	: 5 Kg and 20 Kg
Shelf Life	: 24 months

Surface Preparation

- A sound, clean and dry substrate is absolutely essential for successful coating application and in ensuring maximum bonding between the substrate and coating system. New concrete surface must be a minimum of 28 days old, free from curing compounds and sealers and have a moisture content less than 5% prior to application of the primer.
- The surface can be prepared mechanically using sand blasting, shot blasting or scarifier or by acid etching with hydrochloric acid followed by thorough water wash and wire brushing. As the case may be detergent wash may also be done. The choice of surface preparation should be determined by the extent and nature of contamination present on the concrete surface. All dust present must be removed by vacuum pump.
- After applying Apcoflor MFP 140, all cracks present, based on the depth of the crack, should be filled by either epoxy, putty or mortar. Expansion joints should be brought up through the coating.

Mixing

- Stir the base and hardener separately. If settling is observed in the base or hardener, loosen the settled material with the help of hand stirrer followed by power driven stirrer for quick homogeneous mixing. Mix hardener gradually into the base under continuous stirring as per stated mixing ratio. Apply after induction time and before expiration of pot life.

Product Use Restrictions

- Generally recommended for interior use.
- Application method and higher drying temperature may affect the colour of the coating.
- As common with all epoxy products, this product also will tend to discolour and chalk on exposure to direct sunlight.
- Product not designed for rising moisture.
- Mix the base and hardener as per pack otherwise it will affect the properties.

Safety Information And Precautions

Safety Precautions

- Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust masks and gloves. Use a barrier cream.

- 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.
- Refer to MSDS for further information.

First-Aid

- Eyes : In the event of accidental splashes, flush eyes with water immediately and obtain medical advice.
- Skin : Wash skin thoroughly with soap and water or approved industrial cleaner.
- Do not use solvent 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.

Disclaimer

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.

This Technical Data Sheet supersedes those previously issued with immediate effect