

Technical Data Floor Coating

Apcoflor HSC 3

Three Components, Epoxy Resin based Floor Screed

Product Description

- Can be epoxy top coated and can also be used for coving.

Designed Use

- For heavy duty ramps, flooring and vehicle parking.
- Loading-unloading bays for heavy duty vehicles, high abrasion floors for engineering plants, workshops, dairies, breweries, food processing , automotive and chemical plants.

Physical Data

Volume Solids (Based on ASTM D2697)	: 100 %
Typical Dry Film Thickness	: 3 – 5 mm
Wet Film Thickness	: 3 – 5 mm
Theoretical Coverage	: 0.15 m ² /kg @ 3 mm dft 0.09 m ² /kg @ 5 mm dft
Finish	: Matt

Application Details – Method Of Application

- Pour the entire screed material and spread uniformly onto the tacky primed surface using a suitable trowel to get the required screed thickness.
- Tamp the laid material with a wooden float to ensure compactness.
- Finish the surface with a suitable steel trowel.
- The coverage would vary significantly based on the nature of the concrete surface.

	Ambient Temperature	Touch Dry	Hard Dry	Full Cure	Pot Life
Drying time	25°C	8 Hrs	24 Hrs	10 Days	45 Minutes
	35°C	4 Hrs	16 Hrs	7 Days	30 Minutes
	45°C	2 Hrs	14 Hrs	5 Days	20 Minutes

No. of Components	Three
Mixing Ratio (Aggregates – Base : Hardener)	As per pack size
Induction Time	10 Minutes
Overlay Time on Primed Surface	1 – 2 Hrs.
Application Conditions	Do not apply this product if the relative humidity exceeds 95%

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	: As per details in the packing
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. Surface preparation by acid etching with hydrochloric acid followed by thorough water wash and wire brushing should be the last option where methods mentioned earlier can not be applied. Acid etching should be carried out in compliance to the local health and hazard regulations and should be necessarily supervised by a skilled person. 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. Apply Apcoflor Solvent Free Primer/HFP 120 primer. Screeding should be started before the primer loses tack. On porous flooring, an extra coat of Apcoflor FP 100/ HFP 120 is recommended so to avoid dry patches and ensure inter-coat adhesion. Expansion joints should be brought up through the coating.

Mixing

- 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 base. Mix hardener gradually into the base under continuous stirring as per the stated mixing ratio. After induction time, mix the aggregates into the mixed resin portion uniformly under continuous mechanical agitation. Mix well for 3 – 4 minutes till the components become homogeneous. Apply 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.

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: Move patient 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.

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