

PRODUCT CODE: 6834

SmartCare Apcoflor HFP 130

Two component, high solid, epoxy resin based floor primer.

FEATURES

- High performance phenikamine based epoxy primer.
- Designed as a high solid primer for concrete surface.
- Primer for APCOFLOR flooring systems.
- Provides good adhesion between concrete surface and subsequent APCOFLOR topcoat.
- Good penetrating and sealing properties.
- Good bonding with sound old and new concrete surfaces.
- Excellent bond strength.

TECHNICAL DATA

Colour	Clear
Appearance	Glossy
Recommended DFT/ Coat	125 - 175 µm
Theoretical Covering Capacity	6.7 - 4.8 sq.mtr/ kg @ 3mm DFT
Mixing Ratio (by weight)	Base : Hardener 65 : 35
Drying Time	Surface Dry: 6 hours Hard Dry: 24 hours Full Cure: 7 days
Consumption	0.15 - 0.21 kg/sq.mtr.
Induction time	10 minutes
Pot life	60 minutes
Bond Strength	Not less than 1.5 MPa (Concrete Failure)
Overcoating interval	Min. : 8 hours Max : 24 hours (provided surface is clean and free from contamination)

The data given is for guideline only. The physical values are subject to normal manufacturing tolerances, colour and testing variances. The coverage & consumption figures are theoretical and do not allow for any additional material required due to surface porosity, surface profile, variations in level or wastage etc.

The actual drying time/ overcoat interval may be shorter or longer, depending on film thickness, ventilation, humidity, temperature etc. The information provided above is at 30°C and 65% relative humidity.

SUBSTRATE QUALITY

- Concrete substrates must be sound and of sufficient compressive strength (minimum 20 Mpa) with a minimum tensile strength of 1.5 Mpa.
- A sound, clean and dry substrate is absolutely essential for successful coating application and ensuring maximum bonding between the substrate and coating system.
- The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. and have a moisture content less than 5% prior to application of the primer. Ensure that the substrate does not suffer from rising moisture and potential osmosis problems.

SURFACE PREPARATION

New Concrete Floors:

Should be at least 28 days old or have a moisture content of less than 5% before proceeding with epoxy primer application. Laitance and deposits on new concrete floors are preferably removed by light grit/ shot blasting, mechanical scarifying or grinding to achieve an open textured surface.

Old Concrete Floors:

- Determine the general condition, soundness, presence of contaminants, presence of moisture vapour emission and the best methods to prepare the surface to receive floor coating system. Mechanical surface profiling by grit or shot blasting, grinding or scarifying are the preferred floor preparation methods on old concrete floors.
- Hydrophobic contaminants can be identified by a simple water drop test. Other contaminants can be identified by pH.
- Remove localized weak or deteriorated materials from the surface. Remove bond-inhibiting materials such as oils, grease, wax, fatty acids, and other contaminants. This can be accomplished by the use of detergent scrubbing, low pressure water cleaning (less than 5000 psi), steam cleaning, or chemical cleaning. Acids and alkalis can be removed by neutralizing to form a water soluble salt and then high pressure water cleaning and mopping it off to dry state.
- In the areas where the contaminants cannot be removed, complete removal and replacement of the contaminated surface is typically considered.
- Surface defects such as voids, bug holes, excess porosity, and physical and chemical damage are usually filled or repaired prior to the installation of the floor coating system. Materials such as slurries, mortars, and polymer concrete are used to level, smooth and patch concrete surfaces.

Note: Acid etching of the surface is not recommended as a preparation technique partly because of the implications for Health & Safety but also because the surface is left saturated with water and calcareous salts which may ultimately lead to debonding or osmotic blistering.

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 homogenous mixing. Mix hardener gradually into the base under continuous stirring as per the stated mixing ratio. Apply after induction time and before expiration of pot life. Over mixing must be avoided to minimise air entrainment. It is recommended to mix a complete unit in the portion supplied.

FLOOR JOINTS

- All cracks and construction joints present, based on the depth of the crack, should be filled either with Apcoflor 2K Screed after primer application.
- The expansion joints should not be overcoated with the coating and to be addressed with suitable material.

APPLICATION

- All dust present must be removed by vacuuming prior to primer application. It is suggested that the product be applied by stiff brush/ roller/ putty knife for better penetration. The primer should be well 'scrubbed' into the substrate to ensure full coverage, but care should be taken to avoid over application or 'ponding'.
- 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.
- Out gassing may occur due to the porosity of some concrete surfaces. To reduce the effect of out gassing, the primer and coating should be applied when the temperature of the concrete substrate is dropping. This usually occurs in the evening; however, the concrete substrate temperature should be measured with a surface thermometer for verification. Double priming will greatly reduce the effects of out gassing by additionally filling the pores in the concrete and prevent air release from the porous substrate which may cause bubbles in the epoxy topcoat later.
- Primed surfaces should be recoated within 24 hours. For longer waiting periods, wipe with xylene until surface becomes tacky. If surface remains hard, abrasive sanding is required.

- A minimum dry film thickness of 50 microns is recommended. Thinner T 141 (0 – 10 % by volume) may be used depending on the site condition.
- Freshly applied primer should be protected from damp, condensation and water for atleast 24 hours.
- At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time & curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly.

APPLICATION CONDITION

- Residual moisture content of the concrete substrate should not exceed 5%.
- No rising moisture & potential osmosis problems.
- Substrate temperature should be at least 3°C above dew point but not above 50°C.
- Recommended ambient temperature for application is between 10°C - 40°C.
- Relative Air Humidity (RH) to not exceed beyond 80%.

CLEANING

All tools and equipment can be cleaned with Thinner T 141 immediately after use.

RECOMMENDED TOPCOATS

Apcoflor TC/ Apcoflor SL/ Apcoflor Screed

For application of Apcoflor HSC3/ ApcocemEP3, application to be done before primer loses tack (within 1-2 hours).

PACK SIZE	10 kgs (Part A: 6.5 kgs & Part B: 3.5 kgs)
STORAGE	Shelf Life: Atleast 12 months if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between 5°C To 35°C, subject to inspection thereafter. Store in a cool, dry place and in accordance with local regulations
REGULATORY INFORMATION	Flash Point: Base - Not less than 24°C; Hardener - Not less than 24°C VOC: 120 gm/ ltr as per USA-EPA Method 24

SAFETY INFORMATION

- As a general safety measure, inhalation of solvent vapours or coating mist and contact of coating with skin & eyes should be avoided. Forced ventilation should be provided when applying coating in confined spaces or stagnant air. Even when ventilation is provided, respiratory, skin and eye protection is always recommended when spraying the coating
- Please refer our Material Safety Data Sheet prior to using the product

Disclaimer: To the best of our knowledge the information provided herein are true and accurate at the date of issuance. Since we have no control over the quality or condition of the substrate or the various factors affecting the use and application of the product, we do not accept any responsibility or liability arising out of use of the product. The company reserves the right to modify data contained herein without prior notice. Any change in data would normally be followed by issue of a new data-sheet. The user should check with the nearest sales office of the company and confirm the validity of the information, prior to using the product.

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