

EPO ROOF

Acrylic Roof Protective Coating



DESCRIPTION

EPO ROOF is a single component flexible premium quality Acrylic polymer based elastomeric coating especially designed for roof protection. Applied as a liquid it cures to form a durable protective waterproof membrane

PLACES OF USE

EPO ROOF is high build seamless waterproofing coating suitable for waterproofing of old & new roofs, it is a polymer base product applied in three or more coats to maintain the desired thickness.

- Used for the protection of roofs and designed for the protection of concrete structures against carbonation and chloride ingress.
- Roof decks and walls (either concrete, or cement mortar and wood.)
- Over terrazzo tiles, asbestos roof
- Can be applied over spray-applied polyurethane foam and other materials that are ultra-violet degrading
- Topcoat for polyurethane water proofing membrane.
- Under tiled areas i.e. bathrooms, toilets, kitchens.

ADVANTAGES

- High Build system provides higher dry film thickness of more than 1mm in three coats.
- The product can applied directly on existing sound concrete, brickbat coba, screed concrete even without removal
- No protection screed required eliminating the additional weight due to protection layer
- Excellent barrier to carbon dioxide, chloride and Sulphate ions.
- Allows water vapour to escape from the structure.
- High resistance to the effect of long-term weathering,
- Durable in all climate conditions including UV attack.
- Excellent bond to concrete and masonry.
- Good crack accommodation capacity.
- Minimum surface preparation needed and low labour

PRODUCT DATA

Form	Liquid
Colour	White / Grey
Packing	15 Kg Metal Can
Coverage	About 0.5 to 0.8 Kg/m ² per coat will provide 250 to 350 microns (dft) thickness per coat
Shelf life	12 Months if stored in dry, shaded ware house condition without opening package.

TECHNICAL SPECIFICATION

Test Name	Standard	Average Result
Density @ 25°C	---	1.45 ± 0.05 Kg /Ltr
Working temp	---	5 - 50°C
Full Curing @ 25°C	---	24 hr
Recoat time @ 25°C	---	6 Hrs
Water vapour transmission	ASTM E 96	< 50 g/m ² /24Hrs
Freezing / Thawing	---	No effect was observed
Chemical resistance	---	Resistance to weak acid, alkali, diesel ,petrol and gasoline

STANDARD COMPLIANCE

Tested to **ASTM D 412 & ASTM E 96**



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APPLICATION PROCEDURE

SURFACE PREPARATION

All the surfaces which are to receive **EPO ROOF** must be free from oil, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Typically concrete surfaces can be cleaned using high pressure water jet or proper wire brushing. Spalled and deeply disintegrated concrete should be removed to sound concrete and repaired with **EPO GULF** repair products.

MIXING & THINNING

The contents of **EPO ROOF** shall be thoroughly stirred for at least 2 minutes using a slow speed (300-400 RPM) drill machine attached with a mixing paddle. Materials must be carefully mixed and thinned to application consistency with fresh water only. Care should be taken in order to avoid aeration of the material.

APPLICATION

For best results, surfaces should be damp. In order to obtain the protective properties of **EPO ROOF** it is important that the correct rates of application are observed.

EPO ROOF can be applied by brush, roller or airless spray. All, surfaces to be coated must be clean dry and free from dust, dirt, oil, grease and other contaminants. A typical four coat application system applied at the rate of 250 to 350 microns per coat would yield a total thickness of 1.5mm (1500 microns). In order to achieve this application should be carried out at the rate of 0.5 to 0.8 Kg/m²/coat.

Coverage varies, and depends on the factors such as type and quality of substrates and the method of application.

Allow 4-6 hours between coats. A final curing time of 18-24 hours is adequate at normal working temperatures. Low temperatures and high atmospheric humidity will slow down the curing rate and vice versa.

Temperature	Touch Dry	Hard Dry
25°C	6 Hrs	24 Hrs
35°C	5 Hrs	20 Hrs
45°C	4 Hrs	18 Hrs

Note: Never apply in rain or substrate immersed in water. Do not clean the cured coat with brooms that have bristles.



CLEANING

EPO ROOF should be removed from tools and equipment with clean water immediately after use. Hardened material can only be removed mechanically.

PRECAUTIONS & LIMITATIONS

Do not apply during rains; the product is designed only for foot traffic and not vehicular movement or movement of machinery or equipment.

HEALTH AND SAFETY

EPO ROOF system is non-toxic but alkaline in nature. Gloves and goggles should be worn while handling. Any splashes on the skin or eyes should be washed off with clean water. In the event of prolonged irritation, medical advice should be sought. **EPO ROOF** system is non-flammable.

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