

POLY COAT EP

Two Component, Abrasion & Chemical Resistant Epoxy Resin Coating

PRODUCT DESCRIPTION

POLY COATE EP is a two component, high build, chemical resistant, non-toxic, hard wearing protective epoxy coating. It is designed to impart a tile like gloss finish on virtually any building and masonry surfaces. The cured film provides a durable abrasion & chemical resistance coating.

POLY COATE EP is available in various standard colours. Special colours could be requested.

TYPICAL APPLICATIONS

POLY COATE EP is designed for protecting & coating most building and masonry substrates (including wall boards, plasters, wood, metals, unglazed ceramic tiles, marble & stones) in :

- Canning factories.
- Food processing areas.
- Kitchens.
- Public buildings.
- Warehouses.
- Lavatories shower stalls.
- Bottling plants.
- Industrial areas.
- Corridors.

PRODUCT FEATURES

- Tile like gloss finish.
- Excellent adhesion to most materials.
- Wear & abrasion resistance.
- Durable with long maintenance-free life.
- Completely washable with normal soap.
- High build up coating.
- Chemical resistance to most common reagents.
- Formulated to be suitable for the Middle East conditions.

PROPERTIES

Appearance

Gloss coloured finish.

Specific Gravity

1.3

Pot Life

70 minutes @ 20°C

40 minutes @ 30°C.

Touch to dry

8 hour @ 20°C.

Full Cure

7 days @ 20°C

5 days @ 30°C.

Working Temperature

+ 5 °C (minimum)

Dry Film Thickness

Approximately 150 microns per coat.

Recoat Time

12 - 24 hours @ 20°C.

Bond Strength to Concrete (dry)

3 N/mm² depending on the quality of concrete.

Chemical Resistance

Visual inspection showed no effect when samples were immersed in the following chemicals for 360 days.

Acids:

Sulphuric Acid, 50 %	Excellent
Hydrochloric Acid, 20 %	Excellent
Nitric Acid, 25 %	Excellent
Phosphoric Acid, 50 %	Excellent
Acetic Acid, 10 %	Excellent
Citric Acid, 10%	Excellent
Lactic Acid, 10 %	Excellent

Alkalis:

Sodium Hydroxide, 50 %	Excellent
Ammonia solution, 10 %	Excellent

Solvents

Petrol, oil, kerosene 50%	Excellent
Butanol	Good
Skydrol	Good

Others

Bleach, 5 %	Excellent
Saturated Sugar (Diluted)	Excellent
For more details, consult POLYCOO Technical Support .	

GUIDE FOR APPLICATION

Surface Preparation

All surfaces should be sound, dry, free from oil, grease, loosely adhering particles and any contamination.

Steel surfaces should be free from rust & scale, recommended to be sandblasted to SA 2 1/2

The concrete age should be 21 days at least with a moisture content less than 5%.

POLY COATE EP could be used directly without a primer, **POLY PRIME EP** is compatible to be used as a primer coat when recommended.

Mixing

Stir both Component a (Resin) and Component B well before use. Pour all the amount of the component B (Curing Agent) to the container of Component A (Resin), mix thoroughly till a uniform colour and consistency is achieved. Slow speed electric drill fitted with a mixing paddle is recommended.

Application

Apply the mixed material to the prepared surface using stiff brush, roller or spray (airless with pressure ratio 1: 40). In case of the necessity to a second coat, apply the second coat after 12 - 24 hours @ 20°C.

Cleaning

Clean all tools and equipment immediately after use with **POLY SOLVENT EP 20**

Packaging

POLY COATE EP is supplied in 5 kg or 10 kg packs, (Compound A and Compound B).

Coverage

Approximately 4 - 6 m² Kg at D.F.T. 150 micron depending up on the conditions of the substrate.

Storage

POLY COATE EP should be stored at room temperature in dry warehouse away from extreme temperatures.

Shelf Life

One year.

Health and Safety .

- Epoxy Resins contain irritants, especially to the skin, eyes.
- Persons handling these materials should use appropriate protective clothing, including rubber or plastic gloves
- If the epoxy resin came in contact with the skin, it should be removed immediately with a dry cloth or paper towel, and the areas of contact washed thoroughly with soap and water

Guarantee / Warranty

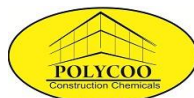
We warrant our products to be of good quality and manufactured to rigid standards. This warranty is in lieu of any and all other warranties expressed or implied.

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POLYCOO services is free and the company dose not accept liability for any loss arising from it.

TECHNICAL SERVICES

For any further technical advice and recommendation for the use of all **POLYCOO** products, please consult the nearest **POLYCOO** technical office.



Under technical collaboration with

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