

PermaCOAT Epoxy Primer



Description

PermaCOAT Epoxy Primer is a two-component, solvent free, low odour epoxy resin, designed specifically as a base coat for epoxy coatings and epoxy mortars. The fast-curing primer prepares and seals the surface, ensuring excellent adhesion of PermaCOAT Epoxy Repair Mortar and the PermaCOAT range of epoxy resin coatings, while also improving the coverage rates and finish of the coatings.

The primer will extend the life of our PermaCOAT epoxy coating systems, by helping to prevent delamination and general wear and tear in high traffic areas. In addition, it's tolerant of residual moisture in concrete floors and has good chemical resistance to mild chemical attack.

PermaCOAT Epoxy Primer can be used on concrete floors and fine concrete screeds. The surface should be of sufficient quality and mechanical strength to ensure an even coating. In preparation for PermaSEAL Epoxy Repair Mortar, particular attention should be paid to cracks.

Benefits

- Easy Application
- Solvent Free
- Low Odour
- Good adhesion to non-porous substrates
- Fast curing/short overcoat time
- Can be subjected to mechanical loads
- Can be subjected to chemical loads

Preparation

New Concrete Floors: New concrete must be clean, sound, dry and fully cured and surface laitance removed preferably by enclosed shot blasting or mechanical grinding, a minimum strength of 25N/mm² is required.

Existing Concrete Floors: Remove all dirt, oil, grease and other surface contaminants by enclosed shot blasting, scarification or mechanical grinding. Fats, oils or greases must be removed by mechanical means and detergent washing.

All traces of concrete hardeners or other contaminants must be removed. The surface must be thoroughly vacuumed to remove concrete dust and then protected against further contamination by suitable means. Surfaces must be free from liquid water and the atmosphere must not be condensing.

Mixing

Multi Chamber Bags

Mix the two components of the transparent multi-chamber bag together by removing the rubber dividing seal and kneading the contents of the bag intensively (minimum of 1-2 mins). Alternatively, the contents can be poured into a bucket and mixed using a slow speed electric mixer with paddle for approximately two minutes or until the two components are homogeneous.

The mixed unit should be applied immediately by roller or brush with a consistent procedure. Floor areas should be cross-rolled to ensure even application and to minimise roller marks.

Note: Apply immediately, do not wait to apply onto substrate.

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Application

Once mixing is complete, transfer the PermaCOAT Epoxy Primer to a roller tray or suitable plastic bucket and, using a medium-pile roller or brush (depending on the type of application), apply it evenly and generously over the surface.

Work the resin primer into the substrate, ensuring that the pores in the surface of the substrate are completely filled.

When using as a base coat for PermaCOAT epoxy floor coatings, it's possible to overcoat the primer in as little as 8 hours at 20°C. When priming broken out areas of concrete ready for the application of PermaCOAT Epoxy Repair Mortar, it's important to apply the repair mortar immediately after application of the primer.

Product Information

Thickness (Dry)	200 Microns 0.2mm (Per Coat)
Solids Content by weight	100%
Pack Size	2.5kg
Shelf Life	12 months
Storage	Keep out of direct sunlight. Store above 15°C
Packaging	Multi-chamber bag

Drying Times & Coverage Rates

Coverage Rate	@0.25- 0.3kg/m ² (2.5kg = 8-10m ²)
Pot Life	Approx. 10-20 mins @ 20°C
Working Time (if transferred immediately)	25 mins @ 20°C
Recoat Time	Min. 6hrs - Max. 24hrs
Light Traffic	24-48hrs
Heavy Traffic	72 hours
Full Chemical Cure	Up to 7 days

Note: As a general principle, higher temperatures will reduce and lower temperatures will increase the times stated.

Technical Information

Abrasion Resistance	n/a
Temperature Resistance	Tolerant of sustained temperatures up to 60°C
Chemical Resistance	Resistance to specific materials
Compressive Strength	Approx. 20 N/mm ²
Flexural Tensile Strength	Approx. 20 N/mm ²

Health & Safety

PermaCOAT Epoxy Primer is formulated from materials designed to achieve the highest level of performance as safely as possible. However, specific components require correct handling and suitable equipment, this information is given in the relevant safety data sheets. In all cases, spillages or skin contamination should be cleaned as soon as practically possible, by dry wiping of the affected area, and thorough washing with soap and water.