

DPM Primer XFH

Product Description

Extra fast hardening damp tolerant epoxy primer for concrete

DPM Primer XFH is a solvent-free, low viscosity, high solids content twin pack epoxy resin with water-reactive and oil binding properties. Designed for application to open pored, damp and oily surfaces, *DPM Primer XFH* is highly resistant to rear side soaking from both oil and water, allowing the most difficult of floors to be coated.

Typical Uses

DPM Primer XFH is a system for sealing oil impregnated or damp concrete floors. It is not in itself a coating or floor paint, and must always be over-coated with an appropriate top coat.

Suitable substrates: *DPM Primer XFH* may be applied to damp open pored concrete surfaces where the relative humidity level is above 75% & the residual moisture level is up to 98% RH.

Colour: *DPM Primer XFH* is grey.

Packaging: *DPM Primer XFH* is supplied in pre-measured quantities as a two part 5kg unit, comprising an epoxy resin blend Part 'A' and hardener Part 'B' and is suitable for lower temperature applications.

Direction For Use

Surface Preparation

The substrate must be a minimum of 14 days old, have a minimum compressive strength of 25 N/mm² and a minimum pull-off strength of 1.5 N/mm².

The surface must be free of brittle particles and laitence. Any remains of previous coatings should be removed by means of scabbling, shotblasting and/or diamond grinding or steam cleaning.

Important: closed pores must be exposed to ensure good adhesion to the surface.

All water must be removed from the surface, leaving it damp but not wet. *DPM Primer XFH* may then be applied to the damp surface immediately after cleaning.

Mixing

Mix only as much as can be applied within the pot life (see 'Pot Life and Curing Time'). Add part 'A' to part 'B' in a suitable container, and thoroughly mix for at least 3 minutes. For best results use a slow speed drill with a mixing paddle, making sure all material from the sides and bottom of the container are thoroughly mixed in and a homogeneous mix is obtained.

Thorough mixing is imperative as an unmixed product will result in a poor or non-cure situation.

Application

Application Conditions

The ideal ambient temperature of the substrate and work area should be a minimum of 15°C during the application and curing period. Curing time will be extended at lower temperatures. Important: Ambient and substrate temperatures must not fall below 10°C during the application or curing process as this causes an irreversible reaction blockade.

Application

Apply by brush, short to medium pile lamb wool roller, or squeegee, in one or more continuous applications until the material is absorbed and a film has formed. Make certain that the entire surface is completely covered to prevent oil or water migration. Oil or grease impregnated surfaces should be primed using a paintbrush or soft sweeping broom to work the material well into the surface.

Under no circumstances should aggregate be added to the first coat as this will allow water to bleed through the primer and contaminate the following coats.

If the period between the application of the primer and relevant top coat exceeds 24 hours, then a second coat of primer must be applied with fine kiln-dried aggregate sprinkled evenly over the wet second coat at a rate of 1kg per m² to provide a key for the final coating. Spiked shoes should be worn to avoid disturbing the wet coating. Allow to cure for a further 24 hours before removing all loose aggregate from the surface, which is then ready to receive a suitable top coating (*Flortex EP/Flortex Professional/Flortex Chemical Coat*).

If time is very limited - the following method may be used, but this is not advisable for very damp or heavily contaminated substrates: The first coat of *DPM Primer XFH* may be overcoated within 4-12 hours with an appropriate top coat. To ensure chemical bonding between *DPM Primer XFH* and the over-coating this interval should not exceed 12 hours. Allow to cure and recoat if required: see appropriate coating Data Sheet.

Pot Life

The pot life once mixed is approximately 15 minutes at 20°C.

Curing Time

Initial curing takes place within 3-4 hours depending on temperature and moisture of the substrate. Will accept pedestrian traffic in 6 hours. *DPM Primer XFH* must be over-coated within 6-24 hours to ensure intercoat adhesion. If this interval is going to be exceeded, a second coat of *DPM Primer XFH* must be applied, sprinkled with aggregate and allowed to cure to provide a key for the top coat to adhere to. Please take note, a two-coat application is required where moisture levels exceed 85% RH. Full curing takes place after 2-3 days.

Coverage

The coverage rate of *DPM Primer XFH* varies, approximately 4m² per kg per coat. depending on the texture and porosity of the surface, and also on the substrate moisture content and absorption rate.

In areas where high porosity is encountered, an additional coat must be applied to achieve a sealed surface with a minimum film thickness of 190 microns per coat.

Technical data after 28 Days at 20°C

Bond Strength: > 2.0 Nmm² (Concrete Failure)
VOC: 170g/l: Based on a fully mixed unit
Moisture Resistance: Up to 98% RH (Two Coats)

Cleaning

Tools and equipment should be cleaned whilst resin is wet with Polycote solvent cleaner. Hands and skin should be cleaned immediately with organic hand cleaner.

Shelf Life & Storage

Shelf life in unopened containers is 12 months, subject to conditions of storage. Store at temperatures between 10°C and 25°C in a dry frost-free environment away from sources of ignition, in original unopened Polycote packaging.

Health & Safety

Before using this product, please ensure you have received and read carefully both the Hazard Label applied to the container and the relevant Material Safety Data Sheets.

Any Questions

Please do not hesitate to contact us for advice regarding the use of this product or its suitability for your particular application.

Our aim is to provide all the technical help you need to make an informed choice and achieve total success.

Polycote Technical Helpline: **01234 846400**

All reasonable care has been taken in supplying the above information. However, any figures quoted do not constitute a specification but represent typical values obtained. It is the customer's responsibility to ensure the product is fit for the intended purpose and that conditions are suitable. Any technical advice is offered in good faith, but without warranty. This is also applicable when proprietary rights and third parties are involved. In the light of the Company's policy of continual research and development, it is the customer's responsibility to ensure that the information contained herein has not been superseded.

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Polycote UK LLP, Centre Point, Wolseley Road, Woburn Road Industrial Estate, Kempston, Beds MK42 7EF 24	
EN 13813 : SR-B2.0 Synthetic resin screed material for internal use in buildings	
Reaction to fire	NPD
Wear resistance	NPD
Bond strength	B2.0
Impact resistance	NPD