Technical Data Sheet

EP Primer XFH

EP Primer XFH

Fast curing, solvent free, pure epoxy primer for concrete surfaces

Product Description

EP Primer XFH is a solvent free, fast curing, two-part, 100% solids epoxy formulation providing an extremely tough finish with tenacious bond strength. This highly specialised low viscosity, fast hardening formulation ensures maximum penetration into porous surfaces, not only sealing and 'locking' the substrate but significantly strengthening it and helping to prevent further deterioration. *EP Primer XFH* also offers good chemical resistance and due to its fast curing properties, helps minimise downtime.

Typical Uses

Due to its outstanding dust-proofing and surface hardening properties, combined with its fast-curing formulation, *EP Primer XFH* may be used as a concrete sealer without further coating. As a universal primer, it is compatible with a wide range of Polycote epoxy topcoats and screeds. Being solvent-free, non-toxic and non-taint, *EP Primer XFH* is ideal for use in medical, animal, food-processing and working environments where rapid return to service is beneficial. Typical applications include warehouses, factories, workshops, laboratories and chemical bunds.

Suitable substrates:	*EP Primer XFH* has been developed specifically for concrete and cementitious substrates, but can also be used on brickwork, blockwork and timber.
Colour:	*EP Primer XFH* is colourless and translucent.
Packaging:	*EP 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'.

Direction For Use

Surface Preparation

Recommended methods are:

Powerfloated, loose or friable concrete - use a Vacuum Assisted Shotblaster to remove weak laitance and provide a surface key for the coating. If this is not possible, chemically etch with Polycote *Etch IT* then rinse thoroughly and allow to dry.

Loose paint or rust - remove, using a Vacuum Assisted Shotblaster, Floor Grinder or equivalent method.

Oil or grease - use Hot Compressed Air for large areas of contamination.

Smaller, isolated deposits may be chemically cleaned with Polycote *Degrease IT* then rinsed thoroughly and allowed to dry. See relevant Data Sheet prior to application.

Once prepared, the area must be kept clean and free of traffic.

Mixing

Having fully prepared the substrate, stir the individual components before mixing together.

Add the hardener to the resin and thoroughly mix for at least 4 minutes until a uniform, lump-free consistency and even colour is achieved. Make sure that any material sticking to the sides and bottom of the mixing vessel is thoroughly mixed in.

Do not hand mix or divide packs. For best results use a slow speed drill with a mixing paddle.

Ensure thorough mixing as an unmixed product will result in a poor or non-cure situation.

Application

Application Temperature

Normal application temperature is between 10°C and 25°C. The temperature must remain at least 3°C above the dew point until the top coat is applied, otherwise 'blooming' may be caused by condensation. Ensure that the ambient temperature remains above 10°C for at 24 hours after installation.

Application

After mixing, apply immediately by brush, short to medium pile lambs wool roller or squeegee, making sure that the surface is completely covered.

Particular attention should be given to doorways and other areas of high traffic.

When finished, do not scrape the remaining contents from the container as this will invariably include unmixed raw resin.

On porous surfaces *EP Primer XFH* will be absorbed very quickly leaving dry patches. Apply a second coat to these dry patches to ensure good adhesion and reduce the possibility of air release from the substrate causing bubbles or pinholing in the top coat application.

Application(cont)

For a Slip Resistant finish

For slip resistance, sprinkle Polycote Calcined Bauxite aggregate onto the wet primer coat.

The normal sprinkling rate is 4-8m² per 1kg aggregate, but this rate may be varied between 0.5m² - 10m² per 1kg, depending on slip resistance required.

This method allows selective areas of non-slip treatment to be applied as required.

Spiked shoes should be worn to avoid disturbing the wet coating.

Allow to cure before overcoating to encapsulate the aggregate.

Pot Life

Once mixed, approximately 15 minutes at 20˚C

Curing Time

Initial cure takes place within 6-8 hours at 20°C.

EP Primer XFH may be overcoated after 6 hours or once the surface has lost tackiness.

To ensure a good intercoat chemical bond, overcoat within 6 hours and no later than 24 hours after the first coat. If the overcoating time exceeds 24 hours, abrade the first coat to ensure intercoat adhesion.

Full strength is achieved after 7 days.

Coverage

The coverage of *EP Primer XFH* is between 10-20m² per 5kg unit, depending on the texture and porosity of the surface.

Technical Data

Bond Strength:	> 2.0 N/mm² (Concrete Failure)
VOC:	< 165 g/l
Moisture Tolerance:	Up to 75% RH.

Cleaning

Tools and equipment should be cleaned whilst resin is still wet with Solvent Cleaner.

Hands and skin should be cleaned immediately with Organic Hand Cleaner.

Shelf Life & Storage

Shelf life in unopened containers is approximately 12 months subject to conditions of storage. *EP Primer* should be stored between 15-25°C. Store in a cool, dry, frost–free environment on pallets and away from walls.

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**

CE

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

Release of corrosive substances:	SR
Bond strength:	B2.0