

OT Primer

Product Description

Oil-tolerant epoxy primer for contaminated concrete

OT Primer is a low viscosity, twin pack epoxy resin with water-reactive and oil binding properties and great chemical resistance. Designed for application to open pored damp or oily surfaces, *OT Primer* is highly resistant to rear side soaking from both oil and water.

It will enhance the adhesion of coatings and screeds, enabling application to oil soaked concrete floors immediately after steam cleaning the surface. Any oil impregnation becomes locked into the substrate, reacting with the *OT Primer* to draw it down into the capillary pores.

Technical data after 28 Days at 20°C

Bond Strength: > 3.3 Nmm² (Concrete Failure)
VOC: <200g/l

Typical Uses

OT Primer is a system for sealing oil impregnated or permanently 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: *OT Primer* may be applied to damp open-pored concrete surfaces impregnated with almost any oil or grease, including animal, vegetable or mineral based oils.

Colour: *OT Primer* is grey.

Packaging: *OT Primer* is supplied in pre-measured quantities as a two part 4kg or 8kg unit, comprising an epoxy resin and hardener.

Direction For Use

Surface Preparation

The surface must be free of brittle particles and laitence. Any remains of previous coatings should be removed by means of scabbling, shot-blasting and/or diamond grinding. Oil and grease build up should be removed using high pressure hot water or steam jet, to fully expose the substrate. All water must be removed from the surface, leaving it damp but not wet.

OT Primer may then be applied to the damp surface immediately after cleaning.

OT Primer will not bond to heavily contaminated surfaces that have not been cleaned and prepared sufficiently.

Mixing

Add all of the hardener to all of the resin in a suitable container, and thoroughly mix for at least 3 minutes. For best results use a slow speed drill with a mixing paddle to avoid entrapment, making sure all material from the sides and bottom of the container are thoroughly mixed in. Thorough mixing is imperative as an unmixed product will result in a poor or non-cure situation.

Application

Apply by brush, 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 are best primed with a paint brush or soft sweeping broom, in order to ensure the primer is worked well into the surface.

Allow to fully cure before the application of any further coating.

Whilst this is in fact extremely rare, it is important to note that if contamination is particularly bad, the substrate may require a further coat of *OT Primer*. This should be applied 12-24 hrs after the first coat has been applied. The first coat must remain contamination free before applying the second coat.

Self-Levelling Cementitious Screeds

Should the intention be to pour a cementitious screed (*Polycote Easi-Screed*) over the primer, then it is important to broadcast kiln dried sand over the primer to ensure an intercoat adhesion is achieved between the primer and the screed.

Ensure Aggregate should be sprinkled evenly over the *OT Primer* whilst it is still WET, at a rate of 1kg per m². (Spiked shoes may be worn to avoid disturbing the wet coating).

Allow to cure for a further 24 hours before removing any loose / excess aggregate from the surface, which is then ready to receive the desired *Easi-Screed* product.

Application^(cont)

Where dampness and/or oil contamination is of particular concern, it is advisable to seal the surface completely with one first coat of *OT Primer* and then to lay a second coat onto which the aggregate would then be applied. The reason for this is to ensure there is no 'bleed through', should any particles of aggregate penetrate the primer. (Whilst any such penetration is in fact extremely unlikely, some companies with strict requirements / constraints prefer the certainty of a 100% seal, prior to any aggregate being applied).

Should time constraints be limited, it is worthy to note that we do have a faster curing version of the *OT Primer* - see *OT Primer XFH*.

Finally, please be free to consult our Technical Department, who will be more than happy to help with any specific requirement / concern.

Application Conditions

Ideal application temperature range is between +15°C and +25°C.

OT Primer should not be applied if the relative humidity is >90% or if the temperature is less than 10°C. The substrate and uncured floor must be kept at least 3°C above the dew point for at least 48 hours after application.

Pot Life

The pot life once mixed is 30 minutes at +20°C. However, the pot life depends on the temperature, humidity and the condition of the floor; please see Polycote Technical Helpline for further assistance.

Curing Time

Initial curing takes place within approximately 10-12 hours. This depends entirely on the temperature, moisture and porosity of the substrate. *OT Primer* must be over-coated within 36 hours to ensure intercoat adhesion. If this interval is exceeded, a further coat of *OT Primer*[™] must be applied, sprinkled with aggregate and allowed to cure to provide a key for the top coating. Full curing takes 2-3 days.

Ensure ambient temperature remains above 10°C for the first 24 hours after installation.

Keep the substrate and uncured floor at least 3°C above the dew point to prevent condensation or surface blooming.

Coverage

The coverage rate of *OT Primer* is approximately 12-18m² per 4kg unit at 200 microns thickness depending on the texture, moisture content and porosity of the surface.

Cleaning

Tools and equipment should be cleaned whilst resin is wet with 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 in a cool, dry frost-free environment, between 10°C and 25°C, away from sources of ignition.

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.