

Flortex[®] EP

Product Description

Extremely hard wearing pure epoxy floor coating

Flortex EP is a non-toxic, two part, 100% solids solvent-free epoxy resin, incorporating quality high build fillers in a highly advanced formulation. It provides an extremely hard wearing coloured coating with a totally impervious gloss finish. Its pure epoxy formulation withstands heavy forklift traffic, oil chemicals and jet washing. Special formulations available include Extra Fast Hardeners (XFH) and extra chemical resistance. Please contact Polycote Technical Helpline.

Typical Uses

Being solvent-free, taint-free, odourless and non-toxic, *Flortex EP* is ideal for use in medical, animal, food processing or working environments. Typical applications include warehouses, factories, showrooms, workshops, laboratories, kitchens and dairies.

Suitable substrates: Following application of an appropriate primer, *Flortex EP* may be applied to old and new concrete, quarry and ceramic tiles, terazzo, timber and steel.

Colour: *Flortex EP* is available in a selection of 14 standard colours, or in a large range of BS4800 and RAL specifications.

Packaging: *Flortex EP* is supplied in pre-measured quantities as a two part, 5kg unit, comprising a coloured epoxy resin blend Part 'A' and hardener Part 'B'.

Technical Data

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| Shore D Hardness: | 82 |
| Bond Strength: | >2 N/mm ² (Concrete Failure) |
| Abrasion Resistance: | AR 0.5 |
| Impact Resistance: | IR >4 |
| Slip Resistance Pendulum Test to BS EN 16165 : 2021: | Dry > 50 |
| VOC: | < 185g/l - based on fully mixed unit |
| Chemical Resistance: | Good general chemical resistance. For specific reagents contact Polycote Technical Department. |

Direction For Use

Surface Preparation

Recommended methods are:

Powerfloated concrete - use a Vacuum Assisted Shotblaster to remove weak laitence 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.

Loose or friable concrete - use a Vacuum Assisted Shotblaster. If this is not possible, chemically clean with Polycote *Etch IT* then rinse thoroughly and allow to dry.

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.

Prior to application of *Flortex EP*, a suitable primer should be applied. These include Polycote *EP Primer*, *WD Primer* or *OT Primer*, depending on the type and condition of the surface.

Please contact Polycote Technical Helpline, and prepare the surface in accordance with the appropriate primer data sheet.

Mixing

All materials should be stored between 15°C and 25°C for a minimum of 8 hours before use. Having fully prepared the substrate, stir the individual components before mixing together. As pigment may 'sink', ensure that the mixing is very thorough and from the bottom of the container.

Add the Hardener (Part B) to the coloured resin (Part A) and thoroughly mix on a slow speed setting for 3-4 minutes.

Ensure thorough mixing as an unmixed product will result in a poor or non-cure situation. For best results use a heavy-duty slow speed drill with a mixing paddle.

Scrape the sides and bottom of the mixing vessel with a spatula several times as any unmixed material will result in uncured patches in the final finish.

Application

Apply with a medium pile sheepskin roller, working well into the surface, but do not exceed the coverage rate. Edges and difficult to reach areas can be applied by brush.

Flortex EP is normally applied between 0.3kg to 0.5kg per 1m². When the quantity of resin used exceeds 0.5kg/m², air bubbles may become trapped within the coating. These can be removed by using a Polycote Spiked Roller. This must be carried out immediately after application of the resin **BEFORE CURING TAKES PLACE**. Spiked shoes should be worn to avoid disturbing the wet coating.

For Slip Resistant - gradually sprinkle the Kiln Dried Aggregate onto the **WET** resin at a rate of 2-3kg/m², this will need to be rolled immediately once scattered onto the coating. The quantity of aggregate required will depend on the thickness of the initial coating.

Please note: if 2 coats have been specified, spiked rolling is unnecessary for the first coat when using aggregate. Allow first coat to fully cure (preferably 24 hours) before removing all excess aggregate.

Please note: White, Yellow and Safety Red will usually require 2 coats. The thickness of this coat may be varied depending on the finish required but should be significantly less than the first coat

Application Temperature

Do not apply outside the temperature range 10°C to 25°C.

To minimise the risk of 'blooming' caused by condensation, maintain the temperature above the uncured floor to at least 3°C above the dew point for at least 48 hours after application.

Pot Life & Curing Times

Mixed material must be used immediately. The pot life is 20 minutes at 20°C. High ambient temperatures will reduce pot life.

Recoat time is approximately 12-48 hours. Will accept pedestrian traffic in 12 hours and full chemical resistance in 7 days.

To ensure a good intercoat chemical bond, Flortex EP should be applied within 36 hours of priming and/or initial coating. If this interval is exceeded, abrade the first coat to ensure intercoat adhesion.

The floor should be protected from contact with water for at least 7 days.

Coverage

The coverage of *Flortex EP* is approx. 20m² per 5kg unit, depending on the texture and porosity of the surface, and the film thickness required.

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. Store in a cool, dry, frost-free environment (not less than 15°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.