

Flortex® Professional

Product Description

Heavy duty high build epoxy floor coating

Flortex® Professional is a non-toxic two part 100% solids virtually solvent-free epoxy floor coating incorporating quality high build fillers, providing a totally impervious coloured gloss finish. Its pure epoxy high build formulation makes Flortex Professional one of the most durable coatings available, with excellent abrasion and chemical resistance.

Special Formulations available include Extra Fast Hardeners (XFH), extra chemical resistance, low temperature formulations. Please contact Polycote technical helpline.

Typical Uses

Being virtually solvent-free and non-toxic, Flortex® Professional is ideal for use in medical, animal or food environments, and offers good chemical resistance. Typical uses include warehouses, factories, showrooms, workshops, storage and packing areas.

Suitable Substrates

Following application of the appropriate primer, Flortex® Professional may be applied to old and new concrete, and polymer modified cementitious screeds.

Colour

Flortex® Professional is available in a selection of 14 stock colours, or in a large range of BS4800 and RAL specifications (subject to minimum quantity).

Packaging

Flortex® Professional is supplied in pre-measured quantities as a two part 7.5kg or 15kg unit, comprising a coloured epoxy resin blend Part 'A' and hardener Part 'B'.

Direction For Use

Surface Preparation

Concrete & Polymer Modified Sand/Cement Screeds:

For substrates in contact with the ground, a damp proof membrane must be incorporated in accordance with CP 102 or for basement floors, BS 8102. The base should have a relative humidity at the surface of no more than 75% when measured according to BS 8203.

After preparing the surface, the substrate must have a reading of 25 or above when tested using a rebound hammer in accordance with BS EN 12504-2 type N and pull-off strengths in excess of 1.5N/mm² when tested in accordance with BS EN 13892-8.

Fine concrete screeds should be constructed in accordance with BS 8204-1 and should not contain any water repellent admixtures. Unmodified sand cement screeds or those based on calcium sulphate are not suitable.

Substrates must be clean, dry and free of surface laitance and contaminants such as oil, grease, dirt and surface treatments. A loss of adhesion and failure in the coating can occur due to poor preparation.

Vacuum-assisted shotblasting or grinding are the recommended methods for preparing the substrate.

Prior to application of Flortex® Professional a suitable Polycote primer should be applied, depending on the type and condition of the surface.

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 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

Flortex Professional may be applied with a medium pile simulated 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® Professional 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 are removed 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.

To achieve an anti-slip finish – gradually sprinkle Kiln Dried Aggregate onto the **WET** resin at a rate of 2-3kg/m². The quantity of aggregate required will depend on the thickness of the initial coating. **Please note:** 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.

A final coat of *Flortex® Professional* should then be applied, the thickness of this coat may be varied depending on the finish required but should be significantly less than the first coat. Please note: Yellow and Safety Red will usually require 2 coats.

Pot Life & Curing Time

Mixed material must be used immediately. The pot life is 10 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 Professional 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.

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.

Coverage

As a guide, a 15kg unit of Flortex Professional will cover approximately 30 – 50m². However, dependant on the porosity of the substrate the coverage may vary between 20-60m² per 15kg unit.

Cleaning

Tools and equipment should be cleaned whilst resin is still wet with solvent 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 below 15°C 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**

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.