

PPG EP002

Low Viscosity Epoxy Primer

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DESCRIPTION

PPG EP002 is a two-component epoxy primer with good penetrating properties for use on concrete and polymer modified cementitious screeds. PPG EP002 is designed to improve the adhesion of PPG Resin and Cementitious flooring products to the substrate.

FEATURES & BENEFITS

- Low viscosity - penetrates into the substrate
- Seals the pores in the concrete - this reduces the potential for out gassing and pin holing in resin floor finishes thus improving the aesthetics of the final finish.
- Improves the adhesion of products to the substrate
- Easy to mix and apply

SUITABLE SUBSTRATES

Thoroughly prepared concrete, polymer modified sand and cement screeds.

TYPICAL PROPERTIES, 28 DAYS AT 20 °C

Adhesion to concrete (BS EN 1504-2) > 1.5 MPa (concrete failure)

The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field applied samples may vary dependent upon site conditions.

PRODUCT CURE SCHEDULE AT 20°C

Working life/pot life of full packs * 25 minutes

* Usable working life of material following mixing and immediate spreading as per the application instructions.

Finished floor * Over coating time 15 - 36 hours

* The above cure times are approximate and given as a guide only.

These times can vary due to prevailing site conditions. At lower temperatures curing times will be extended. If the over coating interval of 36 hours is extended, the first coat should be abraded to ensure good intercoat adhesion.

AVAILABLE PACK SIZES

PPG EP002 is available in pack sizes of 5, 10 and 25Kg

COVERAGE*

Coverage varies widely due to the porosity and profile of different substrates. As a guide: Rough porous concrete: A test area is recommended. Average finish: 200 - 250 g/m²

* Coverage figures given are theoretical. Practical coverage rates may vary due to wastage factors and the type, condition, profile and porosity of the substrate.

APPLICATION CONDITIONS

Resin products should not be mixed and laid outside of the range 10°C to 25°C. Localised heating or cooling equipment may be required outside this range to achieve ideal temperature conditions. To reduce the risk of "blooming" caused by condensation, the climate above the uncured floor should be maintained at least 3°C above the dew point until subsequent toppings are applied.

SUBSTRATE QUALITY

The surface strength of the concrete base or screed should be assessed using a rebound hammer in accordance with BS EN 12504-2 and should be above 25, and the surface tensile strength should exceed 1.5 N/mm². An effective structural damp proof membrane should be present and the relative humidity at the surface no more than 75% when measured by the method of BS 8203. New concrete should be a minimum of Grade C35 with a minimum cement content of

300 Kg/m³ and should not contain a water repellent admixture. If the concrete is not dry then PPG EP001 DPM Floor Primer may be used. For further information on PPG EP001 see the appropriate Product Data Sheet. Substrates should be clean and free of surface laitance and contaminants such as dirt, dust, loose material, oil, grease, poorly bonded coatings and surface treatments.

SUBSTRATE PREPARATION

Inadequate preparation will lead to loss of adhesion and potential failure. Grinding or light vacuum-contained shot-blasting is therefore preferred to planing for these systems. Percussive scabbling or acid etching is not recommended. Weak concrete must be removed and voids filled with a suitable repair material. High spots must be removed e.g. by grinding. If the floor requires levelling or repairing then please choose a suitable product from the PPG Cementitious Flooring Range. Excessively porous concrete should be primed using PPG EP002 Epoxy Floor Primer. If in doubt, apply a test area first and check subsequent adhesion using appropriate testing methods. Refer to PPG Extra if further information on suitable floor preparation methods is required.

OIL AND GREASE

For large areas of contamination, use hot compressed air treatment. Small, isolated contamination should be removed using an appropriate degreaser, rinsed thoroughly and allowed to completely dry.

APPLICATION INSTRUCTIONS

Add the hardener component to the resin component and mix using a low speed electric mixer (200 - 500 rpm) fitted with a mixing paddle designed to minimize air entrainment for 2 minutes until homogeneous. Care should be taken to ensure that any material adhering to the sides and bottom of the mixing vessel is thoroughly mixed in otherwise uncured patches may result. Once mixed the primer should be applied immediately in a thin continuous film. Work the primer into the surface using a stiff brush or roller avoiding pooling. On porous surfaces PPG EP002 will be absorbed very quickly leaving dry patches. A second coat should be applied to these dry areas to ensure good adhesion and reduce the possibility of air release from the substrate causing bubbles or pin holing in the final topping. Do not add solvent/thinners to the product.

HEALTH AND SAFETY

Refer to product Safety Data Sheet before use.

EU Directive 2004/42/EC

Complies with category j type SB (< 550 g/l VOC content).

STORAGE

Materials should be stored in their original unopened containers in a dry weatherproof area maintained within a temperature range of 10°C to 30 °C on pallets and away from walls. Protect from frost and direct sunlight.

SHELF LIFE *

12 months if stored in accordance with the above recommendations.

LIMITATIONS

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >75% or if the surface temperature is <3°C above the dew point. Application should not commence when the substrate temperature or the ambient temperature is, or is anticipated to be <5°C during the application or within the curing period. The design strength of concrete surfaces must be a minimum of 25 MPa compressive strength at 28 days.

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WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

TECHNICAL ADVICE

For further information on this or any other PPG product, please contact PPG Extra on 01924-354354 or ppgextra@ppg.com

LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT.

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| PPG Architectural Coatings UK Limited, Huddersfield Road, Birstall, Batley, West Yorkshire, WF17 9XA | | | |
| CE | 17 | DOP PPG EP002 17131DUT008/9 | |
| EN 13813 SR-B2,0 Synthetic resin screed material for use internally in buildings not subject to reaction to fire regulations. | | | |
| Reaction to fire | E ⁽¹⁾ | Impact resistance | NPD |
| Release of corrosive substances | SR | Sound insulation | NPD |
| Water permeability | NPD | Sound absorption | NPD |
| Wear resistance | NPD | Thermal resistance | NPD |
| Bond strength | B2,0 | Chemical resistance | NPD |

(1) According to Commission Decision 2010/85/EU of 9 February 2010, the product satisfies all requirements of the performance characteristics 'reaction-to-fire' class E without need for further testing.