EPR-100

Solvent Free Epoxy Primer

DESCRIPTION

EPR-100 is a two pack solvent free epoxy primer based on 100% solids epoxy technology. It penetrates and consolidates prepared concrete, sealing the substrate and reducing porosity while creating a strong chemical bond for subsequent epoxy or polyurethane systems. With its low viscosity, **EPR-100** achieves deep absorption into the concrete matrix, limiting the risk of outgassing and pinholing in overlaid systems. Application produces a continuous, uniform film that ensures reliable adhesion, long term durability and a clean, well sealed surface without the release of solvent odours.

Features & Benefits

- **Solvent free epoxy formulation**
- **Improves adhesion to concrete**
- **Penetrates and seals porous substrates**
- **Reduces outgassing and pinholing**
- **Can be filled with quartz for scratch coats**
- **Easy roller or brush application**
- **Low odour, suitable for occupied areas**

Packaging Kit

EPR-100 is supplied in pre-weighed units to ensure correct mixing ratios:

5 kg unit (Part A + Part B)
10 kg unit (Part A + Part B)
25 kg unit (Part A + Part B)

Coverage

Typical consumption **0.25–0.30 kg/m² per coat** depending on substrate porosity and surface profile. A second coat will increase consumption.

Coverage may vary depending on substrate porosity, surface profile and application method.

Environmental Conditions

Application and curing should take place between 10 °C and 30 °C. The substrate temperature must be at least 3 °C above the dew point to prevent condensation. Relative humidity should not exceed 75 % during application and for the first 48 hours of curing. Adequate ventilation is essential to achieve full curing and consistent finish.

Substrate Requirements

Concrete must have a compressive strength of at least 25 N/mm² and a tensile strength greater than 1.5 N/mm². Substrates must be dry, with a maximum relative humidity of 75 % (measured according to BS 8203). Surfaces must be clean, sound and free from laitance, oil, grease, dust, curing agents and loose particles. Mechanical preparation such as vacuum shot blasting or diamond grinding is recommended.

Mixing

All components should be conditioned to 15 °C – 25 °C prior to use. Part A (Resin) is poured into a clean container and Part B (Hardener) is added. The two components are mixed with a slow speed drill (300–400 rpm) for at least 2 minutes until homogeneous. The material must be applied immediately after mixing.

Product Application

EPR-100 is applied by roller, brush or squeegee in a thin even coat. To ensure complete coverage, work the primer well into the surface. On highly porous substrates a second coat may be required. For self smoothing systems, **EPR-100** may be mixed with kiln dried quartz sand (0.4–0.8 mm) to form a scratch coat.

Appearance

Clear to slightly amber liquid which cures to a transparent film on the substrate.

Chemical Resistance

EPLR-100 has good resistance to a wide range of alkalis, oils and diluted acids. For specific chemical resistance enquiries, please contact the Technical Department.

Product Confines

EPR-100 should only be applied when relative humidity is below 75 % and substrate temperature is at least 3 °C above the dew point. It is intended for use as a primer and should always be overcoated with a suitable epoxy or polyurethane system. Slight colour variation may occur under UV exposure without affecting performance.

Cleaning

Tools and equipment should be cleaned immediately after use with JofaSolvent, the recommended cleaning agent for epoxy products. Once cured, residues can only be removed by mechanical means.

Health & Safety

Refer to the Safety Data Sheet (SDS) before use. Applicators must wear appropriate PPE including chemical resistant gloves, safety glasses and respiratory protection in poorly ventilated areas.

Disposal of Containers

Empty containers must be treated with the same precautions as full ones and disposed of via an authorised hazardous waste contractor.

Any remaining Part A and B should be mixed together and allowed to cure before disposal.

Additional Information

Jofa Resins endeavour to ensure that all product guidance provided is accurate and correct. Information given by or on behalf of Jofa Resins is based on tests and installations and on our current knowledge and experience. It implies no warranty or guarantee arising from the use of its products as the substrate and site conditions and the actions of any installation team involved in product application is beyond our control. Whether or not in accordance with any advice, recommendation, specification, or information given by Jofa Resins.

Jofa Resins products are guaranteed against defective materials and manufacture and are sold subject to our standard terms and conditions of sale, copies which can be obtained upon request.

Please contact the Jofa Resins Technical Department for further assistance.

TECHNICAL INFORMATION

Shelf Life	24 Months when stored in unopened containers under proper conditions.
Pot Life Temp 20°C	20 to 25 Minutes
Curing Schedule 20°C	**Overcoating:** 12–24 h • **Light traffic:** 24 h • **Full cure**: 7 days
FeRFA Floor Guide	Type 2
Storage	This Product must be stored off the ground in original packaging, unopened and un-damaged. The ambient conditions must be dry and between 5°C and 25°C with no direct sunlight. Protect from frost.
Temperature Resistance	Up to 60 °C
Fire Classification EN 13501-1	B_{fl}-s1
Adhesion Strength EN 13892-8	>3 N/mm²

The above values, based on laboratory tests and our practical experience with this product, represent typical properties measured under standard laboratory conditions of 20 °C and 50 % relative humidity.

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