EPC-50

Epoxy Coving Mortar

DESCRIPTION

EPC-50 is a high strength epoxy coving mortar formulated to create skirtings and coves between floors and walls, improving cleanability and ensuring hygienic environments. The 3 pack system is applied with a coving trowel in thicknesses of 5–50 mm and up to 200 mm height, suitable for forming both radius and butt coves.

EPC-50 provides rapid strength development to resist impact, abrasion, and chemical washdowns in industrial and commercial sectors. For best performance, the mortar is typically sealed with two coats of Jofa **HB-300**.

Features & Benefits

- **High build epoxy coating**
- **Seamless glossy finish**
- **Excellent chemical resistance**
- **Durable and abrasion resistant**
- **Easy to clean and maintain**
- **Slip resistant options available**
- **Solvent free, low odour**

Packaging Kit

EPC-50 is supplied in pre-weighed units to ensure correct mixing ratios:
10 kg unit (Part A + Part B)

Coverage

Approx. 3 kg 1 linear metre of coving (150 mm high × 50 mm base at 5 mm thickness).

Coverage figures provided are theoretical. Practical coverage rates may vary due to application factors such as site conditions, surface profile, and substrate porosity.

Environmental Conditions

The application ambient temperature range should ideally be within 10-25°C. Appropriate heating should be in place to achieve this range for the substrate and room temperature. The substrate and installed resin floors must be kept at least 3°C above the dew point temperature to reduce the risk of condensation or blooming on the surface, relative humidity should not exceed 75%.

Installations outside of the above parameters will affect the cure period, surface finish and product strengths. For concrete bases in contact with the ground, a damp proof membrane should have been incorporated into the slab design, in accordance with the requirements of CP102 (Code of Practice for Protection of Buildings Against Water from the Ground).

Substrate Requirements

Concrete substrates must achieve a compressive strength of at least 25 N/mm² and a tensile strength above 1.5 N/mm². Substrates must be dry (maximum 75 % RH, unless a moisture tolerant primer is used), clean, sound and free from laitance, dust, oils, grease, curing agents or contaminants. Mechanical preparation such as shot blasting or grinding is recommended.

Priming Requirements

Apply **EPT-115** Epoxy Tack Primer using a brush, ensuring full penetration and a uniform coating. **EPC-50** should be applied directly onto the primer as soon as it becomes tacky to form the required coving profile.

Refer to the respective Technical Data Sheets for further details on application conditions, overcoating times, and safety measures.

Mixing

Condition all components to 15–25 °C before mixing. Mix Part A (Resin) and Part B (Hardener) using a low speed mixer (300–400 rpm) for 1–2 minutes. Add Part C (Aggregate) and mix until homogeneous. Scrape sides and bottom of the container to ensure uniformity.

Apply the prepared material immediately after mixing to maintain workability.

Product Application

EPC-50 should be applied to primed surfaces using a steel trowel. The mortar is worked and shaped into the required coving profile with appropriate coving tools. The surface must be finished to a smooth, even texture consistent with adjacent floor finishes. Where possible, material should be applied wet-on-wet to ensure full integration with the JofaCrete floor system.

Appearance

Natural aggregate beige finish.

Chemical Resistance

EPC-50 resists a wide range of oils, alkalis, salts and dilute acids. For specific resistance enquiries, contact the Technical Department.

Product Confines

EPC-50 should only be applied if ambient temperatures are above 10 °C, when the substrate temperature is at least 3 °C above the dew point, and ambient relative humidity is below 75%.

Cleaning

Tools and equipment must be cleaned immediately after use with **JofaSolvent.** Once cured, the mortar can only be removed mechanically.

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	15 to 20 Minutes
Curing Schedule 20°C	**Recoating:** 16–24 h • **Foot traffic:** 24 h • **Light traffic:** 48 h • **Full cure**: 7 days
FeRFA Floor Guide	Type 8
Storage	This Product must be stored off the ground in original packaging, unopened and un-damaged. The ambient conditions must be dry and between 10°C and 30°C with no direct sunlight. Protect from frost.
Temperature Resistance	Up to 60 °C
Compressive Strength EN 13892-2	>45 N/mm²
Fire Classification EN 13501-1	B_{fl}-s1
Adhesion Strength EN 13892-8	>2.5 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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