EPM-6100

Epoxy Repair Mortar

DESCRIPTION

EPM-6100 is a three pack solvent free epoxy repair mortar formulated to provide rapid and durable repairs to damaged concrete. Supplied as a pre-measured kit of resin, hardener and specially graded fillers, it produces a high strength, trowel applied mortar suitable for reinstating concrete in thicknesses from **3 mm to 50 mm.**

EPM-6100 develops exceptional compressive strength, excellent adhesion to concrete and outstanding resistance to impact, abrasion, water, oils and many common chemicals. Typical applications include ramps, falls to drains, floor edges, joint arrises, sub-screeds and heavy duty repair areas.

Features & Benefits

- **High strength epoxy repair mortar**
- **Application thickness from 3–50 mm**
- **Rapid strength gain for fast return to service**
- **Excellent adhesion to concrete and steel**
- **Resistant to impact, abrasion, and many chemicals**
- **Supplied in easy to use pre-measured kits**
- **Low odour, solvent free formulation**

Packaging Kit

Standard 5.0 kg kit consisting of:

5 kg kit (Part A + Part B + Part C)

Coverage

Consumption is approximately **2.1 kg/m² per mm thickness.** A 5 kg unit will cover about **0.8 m² at 3 mm thickness.**

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

Environmental Conditions

Application should take place between 10 °C and 30 °C with the substrate maintained at least 3 °C above the dew point. Ambient relative humidity should not exceed 75 % during application and for the first 48 hours of curing. Good ventilation is required to ensure proper curing.

Substrate Requirements

Concrete must be sound with a minimum compressive strength of 25 N/mm² and a tensile strength greater than 1.5 N/mm². Surfaces should be mechanically prepared to remove laitance, dust, weak concrete and contaminants.

Oil contamination must be removed as far as practicable. Priming with EPR-100 Solvent Free Epoxy Primer or DPM-230 Moisture Tolerant Epoxy Primer is recommended to maximise adhesion.

Priming Requirements

EPM-6100 must be applied over a primer to ensure adhesion:

- Dry substrates (<75 % RH): apply **EPR-100 Solvent Free Epoxy Primer.**
- Damp substrates (>75 % RH): apply **DPM-230 Moisture Tolerant Epoxy Primer.**

Highly porous surfaces may require two primer coats.

Mixing

All components should be conditioned to 15 °C – 25 °C before mixing. Empty Part A (Resin) into a forced action mixer, add Part B (Hardener) and mix until homogeneous. Gradually add Part C (Filler) while mixing until a uniform mortar is produced. Ensure all filler is fully incorporated. The mixed mortar must be placed and compacted immediately.

Product Application

The mixed mortar should be spread onto the primed surface, compacted firmly and finished with a steel trowel. For larger areas, level with a screed bar before trowelling. Where thickness exceeds 50 mm, application should be built up in layers. To avoid surface defects, do not re-trowel once the mortar begins to set. Curing time depends on temperature and ventilation.

Appearance

Supplied as a blended grey mortar. Other colours may be available on request subject to minimum order quantities.

Chemical Resistance

EPM-6100 is resistant to water, mineral oils, greases, fuels, salts and a wide range of diluted acids and alkalis. For specific resistance information, please consult the Technical Department.

Product Confines

EPM-6100 should be applied only when substrate temperature is at least 3 °C above the dew point and ambient relative humidity is below 75 %. Maximum single layer thickness is 50 mm; thicker repairs should be applied in multiple layers. Once cured, the mortar should be overcoated or sealed to facilitate cleaning and protect against staining.

Cleaning

EPM-6100 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	20 to 25 Minutes
Curing Schedule 20°C	**Foot traffic:** 3 -4 h • **Heavy traffic:** 24 - 36 h • **Full cure**: 7 days
FeRFA Floor Guide	Type 6
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 55-60 °C
Application Thickness	3–50 mm
Compressive Strength EN 13892-2	>55 N/mm²
Impact Resistance EN 1504-2	Class II
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.

JOFA RESINS
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