EPQ-100

Epoxy Quartz Screed

DESCRIPTION

EPQ-100 is a solvent free, trowel applied epoxy resin system incorporating graded quartz aggregates to produce a seamless, decorative, and highly durable floor finish. Designed for industrial and commercial use, it delivers exceptional mechanical strength, abrasion resistance, and chemical protection, ensuring long term performance under heavy traffic and demanding service conditions.

The system forms a dense, non porous screed that provides a hygienic and easy to clean surface with excellent adhesion to properly prepared substrates. Typical installation thickness ranges from 4–6 mm, creating a robust, slip resistant floor suitable for both dry and wet process areas.

To complete the system, **EPQ-100** is sealed with **PolyEco** available in gloss, satin, or matt finishes enhancing surface appearance, cleanability, and chemical resistance while allowing specification flexibility to meet individual project requirements.

Features & Benefits

- **High mechanical and impact strength**
- **Seamless, non-porous and hygienic surface**
- **Excellent chemical and abrasion resistance**
- **Slip resistant finish for wet or dry areas**
- **Solvent free, low odour installation**
- **Customisable decorative appearance**
- **Long service life under heavy traffic**
- **Easy to clean and maintain**

Packaging Kit

EPQ-100 is supplied in pre-weighed units to ensure correct mixing ratios:
28.3 kg kit (Part A, Part B & Part C)

Coverage

Typical consumption is **2.1 kg/m² per mm thickness.**
28.6 kg Kit covers:
3.4m² at 4mm thickness
2.3m² at 6mm 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 substrate temperature 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. Adequate ventilation is required to promote uniform curing.

Installations outside of these parameters may affect curing time, surface appearance and long term performance. For concrete bases in direct contact with the ground, a damp proof membrane should be incorporated into the slab design in accordance with 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

EPQ-100 should always be applied over a primer to ensure full 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 and 25°C before use. Pour the complete contents of the resin (Part A) and hardener (Part B) into a suitable mixing vessel. Using a slow-speed drill and paddle mixer (300–400 rpm), mix for 1–2 minutes until a uniform blend is achieved.

Once the resin and hardener are fully combined, gradually add the quartz aggregate component (Part C) while continuing to mix in a forced action mixer. Mix for an additional 2–3 minutes until the aggregate is evenly coated, ensuring there are no dry pockets or unmixed material. Avoid overmixing to prevent air entrainment.

All mixed material must be applied immediately after preparation. Do not allow the material to remain in the mixing vessel beyond its pot life. Partial mixing of units is not recommended.

Product Application

EPQ-100 should be applied to suitably prepared and primed substrates using a clean stainless steel trowel or screeding tool. Spread the mixed material evenly to the required thickness, typically 4–6 mm, ensuring full compaction and uniform coverage. Work methodically to maintain a wet edge and achieve a consistent finish across the entire area.

After initial curing of the screed, the surface must be grouted with **EPG-250** Epoxy Grout Coat to seal the exposed quartz and fill surface voids. This layer enhances the appearance, mechanical strength, and cleanability of the finished floor. The grout coat should be applied evenly and allowed to cure according to the product's technical data before proceeding with the final seal.

Once the grout coat has cured, apply **PolyEco** in gloss, satin, or matt finish as the final seal coat to improve durability, chemical resistance, and ease of maintenance. The seal coat should be applied as soon as the underlying system is ready to receive it, following the recommended recoat window.

Chemical Resistance

EPQ-100 exhibits excellent resistance to a wide range of oils, salts, alkalis, and dilute acids, making it suitable for use in demanding industrial environments.

Appearance

EPQ-100 forms a seamless, decorative quartz surface with a consistent texture and colour. When sealed with **PolyEco**, the finish is available in gloss, satin, or matt, providing a durable and attractive appearance.

Product Confines

Application should not proceed if the relative humidity exceeds 75% or if the substrate temperature is less than 3°C above the dew point. The ambient and substrate temperatures must remain between 10°C and 25°C during application and curing.

Low temperatures may extend curing time, while high temperatures can reduce working life. Colour variation may occur between batches or over time due to UV exposure, without affecting performance.

Cleaning

EPQ-100 should be cleaned using standard industrial cleaning methods. Regular maintenance is recommended to preserve appearance, slip resistance, and hygiene. The surface can be cleaned with rotary scrubbers or floor machines using mild detergents and warm water.

Avoid strong solvents or highly acidic or alkaline cleaners, as these may affect the surface finish. After cleaning, rinse thoroughly with clean water to remove all residues. Proper cleaning will extend the service life and maintain the performance of the Poly Eco sealed surface.

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	**Foot traffic:** 24 h • **Light traffic:** 48 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 60 °C
Compressive Strength EN 13892-2	>45 N/mm²
Flexural Strength EN 13892-2	10 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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