ETZ-180

Decorative Epoxy Terrazzo

DESCRIPTION

ETZ-180 is a high performance decorative epoxy terrazzo system, designed to provide seamless, durable and fully customisable floor finishes for architectural and commercial projects. The formulation combines 100% solids epoxy resin with selected decorative aggregates, resulting in a polished, uniform surface that offers both outstanding aesthetics and long term mechanical strength.

Unlike standard terrazzo systems, **ETZ-180** is formulated to be slightly more rigid and harder, making it particularly suitable not only for heavy duty flooring but also for decorative countertops and bespoke architectural elements where strength and a refined appearance are essential.

Thanks to its high density, abrasion resistance and hygienic properties, **ETZ-180** is ideal for demanding environments such as airports, hospitals, shopping centres, educational facilities, retail units and public buildings, as well as premium interior design applications.

Features & Benefits

- **Seamless decorative finish**
- **Floors and countertops**
- **Higher rigidity and hardness**
- **Strong mechanical strength**
- **Excellent abrasion resistance**
- **Long term durability**
- **Wide colour selection**
- **Easy to clean surface**

Packaging Kit

Standard 42.5 kg kit consisting of:

Part A & Part B (Resins & Hardener):7.5 kg
Part C (Filler): 10.0 kg
Part D (Decorative aggregates blend per mix): 25.0 kg

Coverage

Typical consumption: **2.2 kg/m² per mm thickness.**
A 42.5 kg kit covers approx. **1.9 m² at 10 mm thickness.**

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

Environmental Conditions

Application temperatures must be maintained between 15 °C and 30 °C during installation and curing. The surface should be kept at least 3 °C above the dew point to prevent condensation. Relative humidity must not exceed 75 % prior to priming and during the first 48 hours after application.

Failure to comply with these conditions may result in extended curing, surface defects or colour inconsistencies.

Substrate Requirements

Concrete substrates must be structurally sound with a minimum compressive strength of 25 N/mm² and a minimum cohesive tensile strength of 1.5 N/mm². Substrate moisture content should not exceed 75 % RH.

The surface must be clean, dry and free from laitance, curing agents, sealers, oil, grease, dust and loose or friable material. Mechanical preparation by shot blasting, diamond grinding or light scarification is required to achieve a CSP 4–6 profile in line with ICRI Guideline 310.2R 2013.

Priming Requirements

To ensure optimum adhesion and surface sealing, ETZ-180 must be applied over a suitable primer:

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

In the case of highly porous substrates, two primer coats may be required to ensure full sealing before the terrazzo system is applied.

Mixing

All components shall be pre-conditioned to a temperature of 15 °C to 25 °C prior to mixing. Part A (base resin) shall be poured into a clean container, after which Part B (hardener) is added and mixed using a low-speed drill (300–400 rpm) for 2 minutes until a homogeneous mixture is achieved. Part C (filler) is then slowly incorporated and mixing continued until uniform. The mixture shall subsequently be transferred into a rotary drum mixer, where Part D (decorative aggregate blend) is gradually added and mixing continued for a minimum of 3 minutes until a consistent mass is obtained. The material must be applied immediately upon completion of mixing.

Product Application

The system is applied by steel trowel to a thickness of 12 mm and then ground back to a finished 10 mm.

After initial cure, the surface is ground and polished to expose the decorative aggregates. A grout coat is then applied to seal pores and fine joints, followed by final polishing to achieve a smooth, glossy finish.

Appearance

Polished, seamless finish with exposed decorative aggregates, offering a refined and elegant appearance. Available in a wide variety of aggregate colours and blends.

Chemical Resistance

ETZ-180 provides resistance to oils, solvents, alkalis and diluted acids. For specific chemical exposure queries, please contact the Technical Department.

Product Confines

ETZ-180 should only be applied when relative humidity is below 75 % and the substrate temperature is at least 3 °C above the dew point. The system performs reliably up to 60 °C in continuous service. In light-coloured aggregates, slight tonal variation may occur under UV exposure without affecting performance.

Cleaning

ETZ-180 terrazzo surfaces should be cleaned using soft pads or neutral pH cleaning agents in combination with rotary scrubbers or standard floor cleaning equipment. Abrasive cleaners or highly alkaline detergents should be avoided as they may dull the polished finish. Spills should be removed promptly with a damp cloth or mop.

Routine maintenance with neutral detergents and periodic polishing will help maintain the gloss and extend the service life of the system.

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	**First grind:** 24–48 h • **First polish:** 12–24 h • **Full chemical cure**: 7–10 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	>40 N/mm²
Impact Resistance EN 1504-2	Class II
Fire Classification EN 13501-1	B_{fl}-s1
Adhesion Strength EN 13892-8	>2.0 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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