



Epoxy Terrazzo Binder

ETZ-100

Colourless Epoxy Terrazzo Binder for mixtures of natural stone granules 5-20mm in a Mediterranean Terrazzo Finish

Description

Epoxy Terrazzo Binder is a three component, colourless epoxy resin binder with 100% solids for application for interior floors, which with the mixture of aggregates will create a Mediterranean Terrazzo Finish.

Typical Uses

Main applications are as follows: Application on interior floors, allowing the incorporation of different loads or inert materials, such as plastics, glass or stones of different sizes.

For use as a binder of heavy duty terrazzo floors. The binding and spreading capacity of the product allows the use of any mixture of aggregates, including limited quantities of other additional materials (glass, mother of pearl, steel, etc.)

Epoxy Terrazzo Binder has been designed for the creation of low seamless floors in Mediterranean Terazzo styles, suitable for heavy traffic in industrial, civil and commercial use such as villas, apartments, shops, showrooms, offices, conference rooms, hotels, walkways, restaurants, shopping centers, etc

For other applications contact Sindec Chemicals Ltd.

Appearance

Various Mediterranean Terrazzo Styles, depends upon aggregate selection.

Features & Benefits

- Excellent adhesion
- Easy application
- Allows Minimum thicknesses of 4/5 mm (Aggregate Dependant)
- No Shrinkage
- Can be Pigmented
- Impermeable to Liquids
- Easy Maintenance Floor
- Excellent mechanical and chemical resistance
- Solvent-Free
- High mechanical and chemical resistance to a wide range of products, such as solvents, fuel oils and bases.

Coverage

Coverage varies depending on thicknesses, aggregate size and added mixture. Consult supplier of aggregate.

(Average Mixture Blends figures)

Marble 2mm to 4mm = 6.500kg / m²

Marble 6mm to 10mm = 7.500kg / m²

* Coverage figures given are theoretical. Practical coverage rates may vary due to wastage factors and the type, condition, profile and porosity of the substrate.

Mixing

Pour part B into part A, stir and completely blend both components using a low-speed mixer using paddle mixer for a minimum of 3 minutes @ 300-400 rpm. Then transfer the mixed compound into a large enough mixer to contain the entire mixture (Ideally 50LT)

Using a low speed, Slowly and continuously add component C powder into the mixture alongside the aggregates (stone, marble, etc) until the product is completely mixed and a homogenized mixture has been achieved amongst all parts.

Product Application

Once mixed, pour mixture onto surface and apply by trowel, until achieving the desired thickness. The mixture should be compacted using a trowel or power trowel and levelled to allow to cure

Allow the mixture to become fully cured before grinding back to reveal the natural aggregate. Grind back in stages starting with a coarse abrasive following up in stages with a finer abrasive until the desired finish is achieved.

Patterns and design may be achieved by installing divider strips where desired, creating a floor unique layout before the application of the wet mix.

Substrate Requirements

Inadequate preparation will lead to loss of adhesion and failure. Grinding or light self-contained shot blasting is therefore preferred. If in doubt, apply a test area first.

Requirements as follows:

- Compact and Cohesive (Pull off test must show a minimum resistance of 1.4N/mm²).
- Minimum compressive strength of 25N/mm².
- Even and regular surface.
- Free from cracks and fissures. If any, they must be previously repaired (we recommend using Sindec Epoxy Crack Filler).
- Clean and dry, free of dust, loose particles, oils, organic residues, laitance and contaminants.
- Max retained moisture 6% and a functioning DPM.

Oil & Grease

Isolated contamination should be removed using an appropriate degreaser, rinsed thoroughly, and allowed to completely dry. A coat of **OT-235 (Oil Tolerant Primer)** should then be applied (see separate datasheet)

Tool Cleaning

Tools and equipment should be cleaned whilst the resin is still wet using **Sindec Tool Cleaning Solution**





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Environmental Conditions

Epoxy Terrazzo Binder should not be used or applied at temperatures outside of at range of <10°C to >25°C
*temperature control will be required if below this range, otherwise, this will affect the cure period.

Maximum application temperature is 40°C. Best conditions are 15°C to 25°C, these conditions should be maintained during all the curing time. Application should be carried out with plenty of air ventilation.

Technical Information

PRODUCT INFO BEFORE APPLICATION

	Component A	Component B
Chemical Description	Epoxy	Polyamine Mixture
Physical State	Liquid	Liquid
Packaging Kits		
ETZ-100 = 38.5kg kit (Colourless) A = 10kg B = 5kg C = 22Kg		
Colour	Pigmented	Slightly Amber
Mixing Ratio	A = 2 by weight	B = 1 by weight
Use Before	12 months after manufacturing date	
Working Time	Temp (°C)	Time
	20	30 mins
Touch Dry	20	10 to 12 hours
Curing Time	20	7 Days
Sandable (for Grouting)	20	24 hours
Storage	Keep between 15°C an 30°C. Component A may crystallize if stored for protracted periods under cold conditions. If this occurs, it can be restored to its original conditions by heating it to 70-80°C and stirring it thoroughly.	
	Shelf Life 12 Months (if unopened)	
Fire Resistance	Class BFLs1	

FINAL PRODUCT INFORMATION

Final State	Bound aggregate, Rigid Material
Colour	Clear with Aggregate Mixture
Hardness (Shore)	85 Shore D hardness after 7 day > 23°C
UV Resistance	Undergoes slight ambering under sunlight and UV exposure, hardly noticeable in indoor application. No mechanical properties are affected.
Chemical Resistance	Contact Sindec Chemicals for information

Disposal of Containers

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste, and transfer them to an authorized waste manager. If the containers still have some material left, do not mix with other product before considering the risk of potential dangerous reactions.

Technical Advice

For further information on this or any other Sindec product, please contact our office.

Health & Safety

Before using this product, please ensure that you have received and read the product Safety Data Sheet. Refer to hazard labelling on the product. Wear gloves and avoid contact with skin and eyes.

Additional Information

The information contained in this document, and all further technical advice given is based on our present knowledge and experience.

However, it implies no liability or legal responsibility on our part. In particular, no warranty or guarantee of product performance in the legal sense is intended or implied as the conditions of use and the competence of any labour involved in the application are beyond our control. Properties and coverage rates shown are for guidance purposes only. The user of the product must determine the product's suitability for the intended purpose.

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