



TECHNICAL DATA SHEET

ETZ-321 Epoxy Terrazzo Binder

Description

ETZ-321 is a 3-component, pigmented, solvent free, flexible epoxy resin binder with 100% solids, for interior floor application, which, with the mixture of aggregates, will create a coloured Terrazzo Finish.

Features & Benefits

- Nonylphenol free.
- 100% Solid.
- Excellent adhesion.
- No shrinkage.
- Can be pigmented.
- Impermeable to liquids.
- Easy-maintenance floor.
- Excellent mechanical and chemical resistance.
- Solvent free.

Packaging Kit

42kg kit - Components A + B + C

Coverage

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

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

Substrate Requirements

Requirements as follows:

- The concrete substrate must be prepared mechanically to achieve an open texture surface using a captive shot blast machine or diamond grinding.
- Free from cracks and fissures. if any, they must be previously treated (we recommend Sindec Epoxy Crack Filler).
- Clean and dry, free of dust, loose particles, oils, organic residues, laitance, and contaminants.

*Inadequate preparation will lead to loss of adhesion and failure.

Tensile Adhesion Strength

>1.5 N/mm² to concrete

Compressive Strength

>25 N/mm² to concrete

Environmental Conditions

Optimum ambient temperature range is 15 – 25°C. Localized heating (electric powered warm air blower) or cooling equipment may be required outside this range to achieve ideal temperature conditions.

The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface, relative humidity at less than 75%. (ideally between 50-65%) from before priming, to at least 48 hours after application.

Installations outside of the above parameters will affect the cure period, surface finish and strengths.

Mixing

Pour the hardener component B into the resin component A and mix both components for a minimum of 3 minutes using a low-speed paddle mixer (300-400 rpm). Use a spatula to scrape the sides and bottom of the bucket. To ensure proper mixing, pour the resin into a clean bucket and mix for 1 further minute.

Transfer mixed resin into forced action mixer and thoroughly mix (may be longer than a minute) Part C.

Product Application

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

Technical Information

Curing Schedule 20°C	Grinding Polishing	24 - 36 hours 36 - 48 hours
Shelf Life	Resin & Hardener: Aggregate:	12 Months 6 Months
Pot Life	Temp 20°C	18 Minutes
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.	



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Chemical Resistance

See Chemical Resistance Chart.

Cleaning

Regular cleaning is essential to enhance and maintain the life expectancy, slip resistance and appearance of the floor. **ETZ-321** can be easily cleaned using industry standard cleaning chemicals and techniques. Consult your cleaning chemical and equipment supplier for more information. It is recommended that a sample area of your cleaning chemical is tested in an inconspicuous spot before full use.

Appearance

Various Mediterranean Terrazzo Styles depends upon aggregate selection.

Technical Advice

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

Limitations

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >75% or if the surface temperature is <3°C above the dew point. Application should not commence when the substrate temperature or the ambient temperature is or is anticipated to be <10°C during the application or within the curing period.

The design strength of the substrate concrete surfaces must be a minimum of 25 N/mm² compressive strength at 28 days. Compact and cohesive pull of test must show a minimum resistance of 1.4 N/mm².

The manufacture of **ETZ-321** is a batch process and despite close manufacturing tolerances, colour variation may occur between batches. Products from different batches should not be used on the same surface or surfaces close together. If mixed batches are unavoidable, it is best practice to use the different batches only in areas where the colour cannot be directly compared. Touching up should only be attempted using product from the same batch.

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 potentially dangerous reactions.

Any remaining parts A and B of the same product should be mixed and allowed to cure before disposal.

Health & Safety

Before using this product, please ensure that you have received and read the product Material Safety Data Sheet. Refer to the hazard labelling on the product. Always wear gloves and goggles 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. 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. We reserve the right to make any changes according to technological progress or further developments.

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.

The use of the product must be tested for suitability of application and purpose.

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