

EPTop Terrazzo 200

Epoxy Based Decorative Terrazzo system

Description

EPTop Terrazzo 200 is a basically Seamless Decorative floor coverings are a great alternative to commercial vinyl, ceramic tiles and plain new or old concrete surfaces. This product having Three component solvent free system pre-weighed for on-site mixing. The floor provides a hard wearing, smooth light reflective, impervious and easy to clean treated surface. A Specialist applied self-smoothing, epoxy resin floor finish combining outstanding wearing properties with chemical resistance and multi-colored, decorative, Texture and having good abrasion resistance properties.

EPTop Terrazzo 200 is a blend of epoxy resin systems and selected special silica fillers and pigments. Each system contains 3 pre-weighed materials of exact proportion for mixing and use on site. It is basically designed for use in wide range of industrial environments where a lasting to low maintenance floor is required.

Uses

Ideal for Public areas, Shops, Showrooms, Department stores, Designer outlets, Restaurants, Garden Centers, Schools, Airports, Hospitals, Stadiums, Industrial buildings, Corporate Offices and Commercial kitchen

Advantages

- Fast curing and rapid installation
- Can be overlaid onto existing ceramic tiles, Marble, granite, terrazzo floors
- Attractive decorative finish
- Extensive design potential
- Seamless and Hygienic finish
- High Chemical resistance
- High Scratch resistance
- Easy to clean and maintain

Surface Preparation

It is essential that EPTop Terrazzo 200 mix is applied on hard, sound clean and free of dust surface in order that maximum bond strength is achieved between the substrate and flooring system. The laitance should be removed by grinding or grit blasting. The light laitance has to be removed by acid etching followed by thorough washing with clean water.

New Concrete

The new concrete or cement substrate on which the system is likely to be applied should be 28 days old and have moisture content less than 5%. If moisture contents is more than 5% use GAC special primers Primex about 3 minutes to get a homogeneous mixture. Once mixed the primer should be applied immediately on to the prepared concrete surface after the primer application, the surface has to be kept for self-cure before proceeding to the next.

Priming

The concrete surface after proper and thorough surface preparation has to be primed with Primex primer. The primer is basically a solvent free resin. It is designed basically for better adhesion with the substrate and the flooring system.

Product Mixing

The EPTop Terrazzo 200 is supplied 3 component units, made up of Resin, Hardener with Binder. Prior to starting the forced action mixer, the entire aggregate component will be poured in. The entire contents of the hardener component will be added to the resin component and mixed with a slow speed electric mixer for one minute until a homogenous mix has been achieved. The mixed resin and hardener will be added to the aggregate which will be mixed for a minimum of 30 seconds until all the aggregate is evenly coated with resin. It must be noted that it is important to mix the resin with the aggregate for the minimum time necessary to achieve an even coating and that all mixes are mixed for the same length of time to prevent excessive and uneven crushing of the aggregate.

System Layer

- Primer: Primex
- Sand Seeding: Quartz Graded Sand
- Topping: EPTop Terrazzo 200
- Sealer Coat: Shield Sealer MATT / GLOSSY

Application Methods

The mixed material will be decanted into the screed box. The screed box will be set to apply the material so that after trowelling the material is at the correct final finish depth plus 2mm, requiring 1.5 kg per mm per m², to match the height of the demarcation trims. The screed box will be pulled across the floor leaving the appropriate quantity of screed on the floor. The screed will be finished with a steel trowel to a flat and even finish, closing up any "tramlines" left for the screed box.

The filled screed will be allowed to cure for a minimum of 24 hours prior to commencing the grinding process, whereas ideally it should be cured for at least 3 days. The purpose of the grinding process is to evenly expose the aggregate and highlight any voids within the screed. The Epoxy Terrazzo Screed will be ground dry, using vacuum-assisted floor polishing and grinding equipment using three hard metal grinding tools. The grinder will be required to remove approximately 1-2mm of material. The ground screed will be grouted using Grout to fill any voids caused by air bubbles in the screed or aggregate "pop-outs" caused by the grinding process.

The grout will be allowed to cure for a minimum of 12-24 hours prior to commencing the polishing process. Polishing will be conducted using Vacuum assisted floor polishing grinding equipment. The polishing process is a phase process where increasingly fine diamond polishing heads are used to produce the gloss level required. The polishing pads vary from hard to soft. Then apply Sealer

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Product Properties

Mixed Density	Approx. 25 minutes
Pot Life @ 30°C	Approx. 30-40 minutes
Working Time @ 30°C	24 Hours
Foot Traffic @ 20°C	24-48 Hours
Full Traffic @ 20°C	48 Hours
Shore D Hardness: 7 Days (ASTM D 2240)	98
Chemical Resistance @ 30°C	7 Days
Full Cure	>92 N/mm2
Compressive Strength: 7 Days	>89.5 N/mm2
Tensile Strength:	5.1(N/mm2)
Application Thickness	2500 gm/mm
Absorption(% ,Kg/m3)	<0.05(Nill)

Storage and Shelf Life

1 year if stored in cool dry place

Cleaning

EPTop Terrazzo 200 can be removed from tools and equipment by using Tool Cleaner immediately after use. Any hardened material will need to be removed mechanically.

Health & Safety

EPTop Terrazzo 200 should be applied with gloves and care should be taken to see that it does not fall on skin or eyes. Splashes on to eyes have to be immediately washed with plenty of clean water and medical advice has to be taken.

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