

SX4 TERRAZZO

POURED EPOXY TERRAZZO SYSTEM

DECORATIVE PAINTS & COATINGS



Description

Created in the 15th century in Venice as a low-cost way to surface terraces surrounding the city's homes, Terrazzo became popular during the midcentury era, where it could be found in commercial spaces including airports, cultural institutions, schools, and hotels. Today's Terrazzo is an environmentally friendly material that is easily customizable and can be poured into different patterns and shapes to produce a smooth, uniformly textured surface for floors, walls, stairs, curbs, counter-tops, and even furniture..

Recommended For

Using a variety of aggregates such as marble, quartz, granite, mother-of-pearl, recycled glass, porcelain and mirror chips within a colored matrix, the Colortek Terrazzo System can be placed upon a level concrete slab or used over adequately installed and prepared plywood. New technologies and materials mean Terrazzo is ideal for settings that require a seamless, heavy-duty designer material, that is low-maintenance and hygienic.

Key Features

- Multi-colored patterns seamless designs
- Anti-bacterial
- High tensile strength
- Low viscosity for ease to application
- Durable surface that provides good scratch resistance
- Resistant to chemical splashes of alkalis and acids
- Flexible for cracking resistance
- Thin set for easy jointing with adjacent floor finishes

Physical Properties

Solvent Type	Solvent free	
Finish Type	Depending on aggregates added	Based on ASTM D523
Dry Film Thickness	Depending on aggregates added	
Spreading Rate	2.1Kg/sqm/mm	Depends on aggregates added
Pot Life	30 minutes at 25°C	
Open to light traffic	After 24 hours	
Open to full traffic	After 48 hours	
Full Cure	7 days	
Adhesion	> 9 N/mm ² (concrete failure)	Based on ASTM D4541
Density	2.1 g/cm ³ (4 components mixed)	
Solids	100 %	
Thermal resistance	Up to 60°C	
Fire resistance	B _{fl} -S1	Based on EN 13501-1
Elongation (A+B)	20%	
Compressive strength	>50 N/mm ²	Based on EN 13892-2
Flexural strength	>22 N/mm ²	Based on EN 13892-2
Tensile strength	> 11 N/mm ²	Based on BS 6319
VOC	< 5 g/L	as Per EPA Method 24
Bases	W0, W1 and N – Tintable to all colors	

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Chemical Resistance / 24 Hour Open Spot Test Based on ASTM D 1308-02

10% Hydrochloric Acid	Decrease in gloss
10% Sulfuric Acid	Decrease in gloss
10% NaOH	No Effect
Saturated Sugar Solution	No Effect
Saturated Salt Solution	No Effect
Ethanol	Minor spot
Motor Oil	No Effect
Gasoline	No Effect
Xylene	Minor spot
Isobutanol	Minor spot
Clorox	No Effect

Application Method

Notice: Installing epoxy terrazzo is a specialized skill set; therefore, it is recommended to hire a qualified and experienced contractor to work on a terrazzo floor.

Moisture Testing: Moisture vapor transmission tests should be performed on all slabs receiving epoxy terrazzo. The threshold is commonly between 75% to 80% relative humidity. Once reading complies to standard, installers can begin work on preparing the concrete for epoxy terrazzo. Otherwise, a moisture mitigation system may be required.

Concrete Preparation: This step involves installers checking for cracks and floor leveling, and determining whether to apply a flexible membrane or leveling fill epoxy. Installers should either shot blast or grind the floor to open the concrete for proper adhesion and remove any contamination before applying SX0 PrimeWell or SX9 Humiguard Primer Moisture Mitigation Systems if needed.

Floor Layout: A terrazzo floor layout is then created. Installers place specified divider strips over the concrete surface, including saw cuts and expansion areas, securing each divider strip in place. The main function of divider strips is to provide an indication of color changes or to control expansion joints.

Pour in Place: When all the components of a terrazzo floor are mixed well, the batch is emptied to a wheelbarrow and transported to be poured in place. Installers will continuously mix components until the section is filled or a new color is needed.

Troweling: When the terrazzo is poured in place, installers will use a hand trowel to spread the batch evenly between the divider strips at 3/8" thickness followed with a power trowel to help close up the floor and tighten up the aggregate. This process concludes when the area is enclosed by the divider strip.

Grinding: Grinding a terrazzo floor involves transitioning from a rough to a smooth surface. Depending on the hardness of the aggregate, a 40 or 80 grit diamond is used to grind the floor. Installers slowly push and pull the electric grinder in a side-to-side motion until the floor exposes the divider strip and aggregate.

Grouting: Once grinding is complete, installers will clean the floor with fresh water and a scrubber and allow the floor to completely dry. The grouting process fills any pinholes or voids left from grinding. Small amounts of matching epoxy color are tightly worked into the pinholes and lightly dusted with marble dust before installers begin polishing the terrazzo floor.

Polishing: Polishing a terrazzo floor is similar to the rough grinding stage; however, is performed wet and not dry. Using 80 grit carborundum stones or 100 grit resin pads, installers will remove the epoxy grout. Slurry is formed and later vacuumed. This stage is repeated with a higher grit to achieve the desired shine of the floor.

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Edges: In areas where a machine won't reach, installers can polish off the corners and edges removing any epoxy grout. Once this is completed, the terrazzo floor is cleaned and ready to be sealed.

Cleaning: Before sealer is applied, terrazzo must be cleaned. Installers should remove all slurry from the surface and clean the floor with fresh water and neutral cleaner using an electric scrubber. Floor is rinsed, water vacuumed, and left to dry completely.

Sealing: Sealing a terrazzo floor adds protection during the material's lifecycle. When a floor completely dries, installers will apply two coats of sealer to cover all areas of the terrazzo floor. Installers apply the first coat and leave it to dry before applying the second coat. After sealing is complete, the terrazzo floors can soon be walked on.

Pack Size

	White	W1	N	Quartz	Hardener	Aggregates
1 US Drum (kg)	4.7	4.3	3.9	8.8	1.93	17.5

Shelf Life

24 months from the date of production.

Storage and Handling

Care should be taken to avoid spillage. Product should be stored in a dry area and protected from freezing. Extreme temperatures may cause paint to become unusable. For example: freezing and thawing may cause paint to gel, and high heat may cause solid skin to form.

Safety

Use under well ventilated conditions. Do not breathe or inhale spray mist or sanding dust. Avoid skin contact; spillage on the skin should immediately be removed with suitable cleanser, soap and water. In case of eye contact, flush immediately with water for at least 15 minutes and seek medical attention immediately. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

Cleaning

Remove as much leftover product as possible from the application equipment before cleaning. Clean equipment immediately after use with paint thinner. Do not empty product into drains or watercourses. Wash hands after use in warm soapy water.

Technical Assistance

Available through your local COLORTEK® Design Center or through your COLORTEK PAINTS® authorized distributor. For the location of the retailer nearest you, email us at info@colortek.eu or check our website www.colortek.eu.

Disclaimer

Product batches are subject to stringent quality control checks in conformity with ISO 9001:2008, Certificate CH12/1128.

The information submitted in this manual is correct to the best of our knowledge & experience. No liability whatsoever can be accepted on the basis of the information supplied herein.

