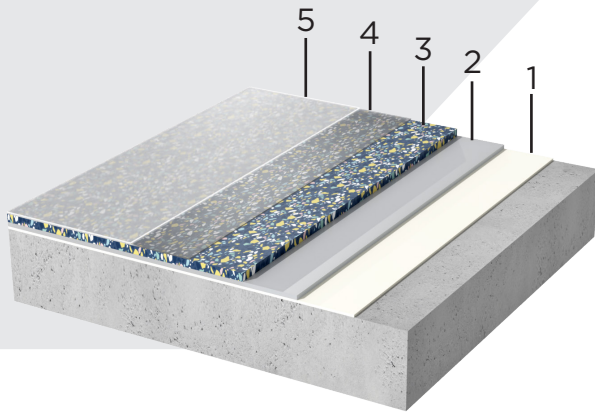




DecoFloor Epoxy Terrazzo

High performance, superior crack suppression, seamless, decorative epoxy terrazzo flooring system

Uses

- Recommended for use in airports and railway stations, ensuring durable and easily maintainable flooring for high passenger movement.
- Hospitals, laboratories, and pharmaceutical facilities, where cleanliness and chemical resistance are essential.
- Universities, schools, and public buildings, providing a hard-wearing surface that supports long-term service life.
- Restaurants, hotel receptions, and hospitality venues, combining decorative finish with resistance to wear and spills.
- Shopping centers and commercial complexes for a decorative finish and heavy-duty performance.
- Food and beverage production areas, offering a hygienic, easy-to-maintain flooring solution.

Product Description

DecoFloor Epoxy Terrazzo is a high performance, high solids, seamless decorative epoxy terrazzo flooring system formulated from a pigmented resin combined with a wide range of natural and synthetic aggregates. The system produces a dense, abrasion-resistant terrazzo flooring that offers both long-term durability and architectural design flexibility for decorative flooring system.

The system features a five-layered composition for optimal performance:

- Vetoprime EP691 or EP491 – Two-component, solvent-free, epoxy primer applied to prepared concrete substrates, broadcast with anti-slip aggregates for mechanical interlock.
- Vetotop DecoFloor Membrane (Optional) – High performance, 100% solids, flexible polyurethane coating + glass textile fabric mesh. Provides a flexible membrane designed to suppress reflective and hairline cracking in seamless decorative epoxy terrazzo flooring system.
- Vetotop DecoFloor Screed – High performance, solvent-free, four-component (Part A + Part B + Part C + Part D), pigmented epoxy resin mixed with selected decorative aggregates to form the terrazzo body coat/screed layer.
- Vetotop DecoFloor Grout – High performance, solvent-free, two-component (Part A + Part B only, no aggregates), low-viscosity epoxy resin used to fill surface pores and voids after grinding.
- Vetotop UC371 or UC372– Clear, UV resistant, aliphatic protective finishing layer.

Engineered for long-term performance, DecoFloor Epoxy Terrazzo offers exceptional abrasion resistance, crack suppression, slip-resistant finish, superior chemical resistance, and an elegant decorative finish. Due to the membrane layer's superior adhesion and elongation properties, it provides reliable crack bridging, ensuring the integrity and service life of the flooring. Suitable for use in demanding commercial, institutional, and industrial environments, including hot and tropical climates.

Advantages

- Seamless, joint-free finish.
- High mechanical and abrasion resistance.
- Excellent chemical resistance.
- Slip-resistant surface.
- Easy application.
- Aesthetic finish.
- Low VOC.

Standards Compliance

- Conforms to the main requirements of NTMA guidelines for thin epoxy resin terrazzo flooring.
- Performance class: BS 8204 - Screeds, bases and in-situ floorings.

Technical Data

DecoFloor Epoxy Terrazzo	Typical Values
Color	Various color shades
Compressive Strength @ 7 days (MPa) – BS 6319-2	≥ 85
Flexural Strength @ 7 days (MPa) – EN 13892-2	≥ 20
Tensile Strength @ 7 days (MPa) – BS 6319-7	≥ 10
Bond Strength on C25/30 concrete @ 7 days (MPa) – EN 1542	≥ 2 (concrete failure)
Taber Abrasion Resistance (1000 g, 1000 cycle) – ASTM D4060, weight loss (mg), CS17 wheel	≤ 90
Water Absorption (%) – ASTM C413	~ 0.05
Impact Resistance (Nm) – ASTM D2794	16
Slip Resistance (4-S rubber slider, dry) – BS 7976-2	> 40 PTV (L) Low slip potential
Service Temperature (°C)	-10 to +65
Chemical Resistance	Excellent
Reaction to Fire – EN 13501-1	Class Bfl – s1

System Design Package

1. Priming Layer

- Vetoprime EP691 or EP491 (two-part, solvent-free, epoxy primer broadcast with anti-slip aggregates)
- Recommended thickness: 100 – 200 microns

2. Crack Suppressant Membrane Layer

- Vetotop DecoFloor Membrane (100% solids, flexible polyurethane coating + glass textile fabric mesh. Provides a flexible membrane designed to suppress reflective and hairline cracking)
- Recommended thickness: 1 mm

3. Body Coat

- Vetotop DecoFloor Screed (four-part, pigmented epoxy resin mixed with decorative aggregates)
- Recommended thickness: 8 – 10 mm

4. Grouting Layer

- Vetotop DecoFloor Grout (two-part, low viscosity epoxy resin) + DecoFloor PA (acrylic-based polishing agent)

5. Sealing

- Apply Vetotop UC372 for a clear matt finish or Vetotop UC371 for a clear glossy finish.
- Applied as a final sealing layer for smooth, durable, and hygienic surface

Usage Instructions

Surface Preparation

All surfaces must be free of oil, grease, dust, laitance, loose particles, coatings, curing compounds, and any other contaminants that may hinder adhesion. The substrate must be clean, dry, even, and structurally sound to ensure optimal bond with the DecoFloor Epoxy Terrazzo System. Concrete must have a minimum compressive strength of 25 N/mm² and a pull-off strength of at least 1.5 N/mm². The maximum permissible concrete relative humidity is 75% (equivalent to a maximum moisture content of 4%), as measured using a hygrometer. Surface preparation must be carried out mechanically using abrasive blasting, diamond grinding, or scarifying to achieve an open-textured surface profile. Weak or damaged concrete areas, including blowholes and surface voids, must be repaired using an appropriate repair mortar from the Vetorep ER product range. All loose or friable material must be completely removed by vacuum or brush prior to application.

To control movement and aesthetics, metal divider strips (e.g., aluminum, stainless steel, or brass) must be installed on the surface as per the design layout.

Application

1. Primer Application

- Prime the prepared concrete substrate using Vetoprime EP691 or EP491, ensuring full coverage and penetration.
- Depending on surface porosity, additional coats may be required.
- While the primer is still wet, broadcast anti-slip aggregates at a rate of 0.5 kg/m² and allow it to reach a touch-dry state before proceeding to the next layer.

2. Crack Suppressant Membrane Application

- Apply the mixed Vetotop DecoFloor Membrane layer uniformly onto the primed surface using a roller, brush, or squeegee, and immediately after application start application of reinforcing mesh ensuring full coverage and a continuous film to bridge static cracks or joints.
- Allow the layer to cure sufficiently before overcoating.

Note: This layer is optional but recommended to suppress reflective and hairline cracking in concrete substrates.

3. Body Coat Application

- Pre-stir each component, then mix the entire hardener into the base resin using a low-speed electric drill for 2 minutes.
- Transfer the mixed binder (Part A + Part B) into a forced-action mixer and add aggregates (Part C) at a ratio of 2.5 – 3.5 parts aggregate to 1 part resin, followed by (Part D). Mix until uniform and fully coated.
- Immediately apply the screed to the prepared surface and spread evenly using steel trowels or screed boxes.
- Compact thoroughly and finish with a Teflon-coated power floater (20–90 rpm) to achieve a smooth, level surface aligned with divider strips.

FLOORING

Note: Do not mix by hand. Pre-condition materials for 24 hours at 18–25°C for best results.

4. Grinding

- Begin grinding after 12–24 hours (depending on temperature and curing conditions) using a 3 or 4 head mechanical grinding machine.
- Grind in slow, overlapping circular motions until the surface is smooth and aggregates are uniformly exposed.

Repeat the process 3–4 times as needed to achieve the desired finish.

5. Grouting Layer Application

- After dry grinding, apply Vetotop DecoFloor Grout (neat resin) at a rate of 0.4 kg/m² using a trowel or squeegee.
- Work the resin thoroughly into the surface to fill all pinholes, blowholes, and surface voids.
- Ensure complete coverage and allow the grout to fully cure.
- Following curing, apply the DecoFloor PA (acrylic-based polishing agent) after final grinding to enhance surface finish and densification.

6. Sealing

- After final grinding and polishing with 80–120 grit resin-bonded diamond tools, apply the selected sealer as the final wearing layer using a short-pile roller or airless spray, where required.
- Apply Vetotop UC372 for a clear matt finish or Vetotop UC371 for a clear glossy finish.

Cleaning

Clean tools, equipment, and mixers with Vetonit Solvent XX400 before the initial set. Cured material can only be removed mechanically

Key Considerations

- The detailed application and maintenance guidelines for the DecoFloor Epoxy Terrazzo System can be found in the Technical Data Sheets of the respective DecoFloor Epoxy Terrazzo components.
- The Technical Data Sheet provides a comprehensive system description, along with detailed step-by-step instructions covering surface preparation, substrate and environmental conditions (temperature, relative humidity) control, mixing, and application procedures.

Important Guidelines

- DecoFloor Epoxy Terrazzo should not be applied over substrates with rising moisture or in areas without a damp-proof membrane.
- Substrate moisture must not exceed 5%, and relative humidity must be below 85%. Application temperature should be maintained above 10°C.
- Avoid puddling of primer and ensure complete coverage to prevent weak bonding or reflective cracking.
- Protect freshly applied surfaces from water, condensation, and foot traffic for a minimum of 24 hours.
- Always conduct a mock-up or trial area before full application to confirm performance, appearance, and system compatibility.

Packaging & Coverage

Product	Criteria	Pack Size	Consumption
Vetoprime EP691	1-2 primer coats Broadcast anti-slip aggregates while primer is in touch-dry state.	15 L kit	10 m ² /L/ coat @ 100 microns thickness 0.5 kg/m ² aggregates
Vetotop DecoFloor Membrane	100% solids, flexible PU coating + glass textile fabric mesh. (Optional)	15 L kit	0.97 m ² /L @ 1000 microns thickness
Vetotop DecoFloor Screed	-	64 kg kit	2.8 m ² /kit @ 12 mm thickness
Vetotop DecoFloor Grout	Neat resin layer (Part A + Part B only, no aggregates)	20 kg kit	0.4 kg/m ²
+	+		
DecoFloor PA	DecoFloor PA (acrylic-based polishing agent)	5 kg	0.015 kg/m ² /coat
Vetotop UC371 Or Vetotop UC372	Vetotop UC371 (glossy finish) Vetotop UC372 (matt finish) 1-2 coats	4 L kit	~ 5 m ² /L @100 microns DFT

Stated consumption data are for general guidance. Actual consumption depends on the nature of substrate, method of application, and wastage

Health & Safety

Exercise caution during use and storage to prevent contact with the skin, eyes, or mouth. Appropriate personal protective equipment, including protective clothing, gloves, and eye/ face protection, must be worn at all times.

In case of accidental skin or eye contact, the affected area should be rinsed thoroughly with clean water. If ingested, seek medical assistance immediately and do not induce vomiting.

Additional Information

Saveto manufactures a wide range of construction chemicals and specialty products for various applications.

For further information on these products and systems kindly check our website or contact your local Saveto representative.

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