

MARBLE STONE TZ

High Performance 8 mm Decorative Terrazzo Flooring System



Marble Stone TZ provides a decorative terrazzo finish of industrial strength and performance.

Marble Stone TZ is an advanced, ready to use blend of hard wearing marble chip aggregate, resin modified cement and selected additives which produces an 8 mm, impact and abrasion resistant, polished concrete floor system.

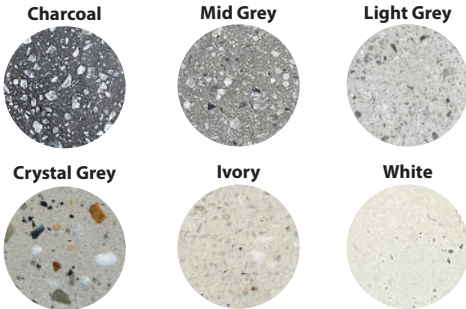
UNIQUE PRODUCT BENEFITS

- Epoxy modified, terrazzo screed
- High performance, decorative micro -terrazzo finish
- Industrial strength and underfoot performance
- Rake and trowel application

TECHNICAL DETAILS

Compressive Strength	> 50 MPa	BS6319
Tensile Strength	> 10 MPa	
Flexural Strength	> 40 MPa	
Concrete Adhesion	> 1.5 MPa (Concrete failure)	ASTM D7234
Impact Resistance	1 kg >1.8 m 2 kg >1.5 m	ISO6272-1:2011
Hardness	80	Shore D
Slip Resistance	Dry >70 Wet >25	TRRL Pendulum Slip Test
Water Uptake (Permeability)	Nil	Karsten Test
Chemical Resistance	Refer to chemical chart	
Foot Traffic	12 to 18 hrs	
Heavy Traffic	24 hrs	
Kit Yield	16 L	
Coverage	2 m ² @ 8 mm	
Thermal Resistance	< 70°C	
Life Expectancy	> 10 years depending on traffic and maintenance	
Cleaning	Mild detergent and water	

PRODUCT COLOUR RANGE:



*Product colours may differ from the ones shown above. For a full colour chart or for samples, contact your nearest Technical Finishes branch. UV exposure yellowing is more prominent in light colours yet does not affect performance.

Leading manufacturers of specialist epoxy and polyurethane flooring systems, specialised construction and corrosion protection products.

Distribution facilities nationwide

Western Cape
+27 (0)21 535 4455

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TECHNICAL FINISHES
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APPLICATIONS:

- Commercial & Retail floors
- Warehouses & Storage
- Residential & Hospitality
- Commercial Office Spaces
- Automotive Showrooms
- Heavy duty flooring

SUBSTRATE REQUIREMENTS

Concrete substrates must have a minimum compressive strength of 20 to 25 MPa, a minimum tensile pull-off strength of 1.5 MPa and be free of oil, fat, grease, dust, and loose friable materials.

Note: Any filling of blowholes/voids and surface levelling of substrate can be achieved using appropriate products within Technical Finishes Construction Range (please speak to one of our technical sales representatives).

PREPARATION

Remove all previous coatings, unbonded concrete and laitance mechanically through diamond grinding, abrasive blasting or scarifying to obtain a sound and porous surface (sandpaper texture). Sweep dust and loose debris followed by vacuuming, to obtain a dry and dust-free surface. Wash with a degreasing cleaner for oily floors. Mark out existing control joints for post cutting once cured.

PRIMING

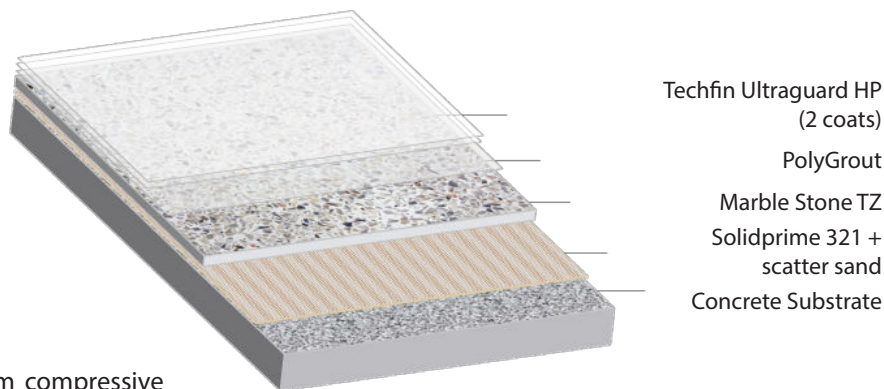
Ensure application conditions of 15 to 28°C.

Apply Solidprime 321 epoxy primer over all areas to be covered with Marble Stone TZ at a rate of 3.3 m² / L or 330 um using a scraper coat method with a steel trowel. Into the wet primer, broadcast Scatter Sand (0.7 - 1.2 mm) at 0.3 kg / m².

Where excessive moisture or oils are present in the concrete, prime with Solidkote STP first at 4 m² / L followed by the Solidprime 321 as above.

INSTALLATION:

Ensure application conditions of 15 to 28°C. Ensure adequate lighting to achieve an even and level spread. Installation should not be attempted unless application team is fully trained.



Mixing

Mix the Marble Stone TZ by combining the liquids in a suitable mixing bucket and mix with a mortar mixer for 2 minutes. Then add both bags of aggregate in increments to produce a uniform, lump free mixture. Mix for a total of 3 - 5 minutes and transfer the mix to the demarcated area for placement.

Placing

Empty the mixture onto the primed floor and rake out between screed bars to 8 mm thick. Smooth the surface out with a steel trowel and gently roll the surface of the screed with a spike roller to assist with smoothing. Allow the product to cure for 24 hours.

The next day cut through the demarcated control joints and grind the surface of the cured screed to expose the marble aggregate. Usually a three-stage polishing system is employed to produce the desired result. After the first cut with metal bonded tooling, proceed with 50, 100 and 200 grit diamond resin pads. The final system thickness will be 6 mm to 7 mm after the polishing process is complete.

Grouting

A damp floor is needed for the grouting phase. Grout the floor to close holes and pits using PolyGrout. Allow the grout to cure overnight. Grout a second time if pin holes and pits have to be closed effectively.

Finishing

Polish excess grout off the surface using 200-grit resin bound diamond pads. Proceed to polish the floor to a minimum of 400-grit diamond. For best results, polishing with diamond grit of up to 800-grit is recommended before sealing.

Wash and vacuum dry.

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SEALING

Stain resistance is enhanced when the Marble Stone TZ surface is sealed.

Apply two coats of **Techfin Ultraguard HP** at 30 - 40 m² / L per coat. To achieve a high gloss surface, additional polishing with a soft pad or propane burnisher is possible.

MAINTENANCE

Regular cleaning extends the service life of the Marble Stone TZ system. Maintenance is to be carried out using Liquid Action which complies with SANS 1344 Medium Duty Solvent Detergent (2112/P3325/10/ID).

HEALTH AND SAFETY

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHS Act No.85 of 1993. The finished system is not hazardous to health or the environment.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.

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