



etonsurfaces
inspiring technology

PRODUCT DATA SHEET

Tech Terrazzo

For Moulded & Precast elements

AT A GLANCE



Indoor & Outdoor Use
High Scratch Abrasion resistance
Easy to use
Polish result like concrete
Design to match others
Etonsurfaces Inc. products

Moulded furniture on site
Precast Elements
Full Color Range
High Compressive Strength
Concrete Performance

DESCRIPTION

Tech Terrazzo is a high performance micro-concrete base, composed of special cements, fibers, chemical additives and selected strength and flexibility.

It is designed for the creation of concrete or Terrazzo furniture in moulds like sinks and countertops and to produce precast elements for stairs, tiles etc and other design elements.

Tech Terrazzo can be produced in various colors. It grinds like a traditional but, contrary to a traditional concrete, it can be installed in as low as 10 mm thickness.

Tech Terrazzo can be troweled to achieve a traditional concrete look or grinded to make Terrazzo effects, depending on the aggregates used.

Tech Terrazzo mixes can be designed to match other products in the line of Etonsurfaces product range.





Fields of application

Tech Terrazzo can be used for a large range of decorative elements and furniture for both, indoor and outdoor end-use.

Technical Properties and Characteristics

Tech Terrazzo	
Composition	Special Cements, binders & aggregates.
Compressive strength (N/mm ²)	40 N/mm ²
Flexural strength (N/mm ²)	10 N/mm ²
Abrasion Resistance	BCA AR 0.5
Application temperature	Min. +5 °C, max. +35 °C
Application thickness	Work with Etonsurfaces Inc. to balance the concrete mix.
Consumption	10-12 kg/cm/m2/cm thickness 40-60 % base to 60-40 % aggregates 22-26 kg ready mixed material depending on the aggregates used
Mixing rate	Approximately 3 liters of water to 20 kg of mixed material.
Opening time	20-40 minutes at 20 ° C. The opening time depends on a lot of factors such as wind and the air and floor temperatures. Furthermore, drying time is dictated by the product temperature and the water used. For these reasons we always recommend to test a small area prior to starting full coverage.
Curing	Cure with water and plastic for 5-7 days.



Installed on Structure

If Tech Terrazzo is installed on a structure, make sure that the surface is stable and has sufficient surface. Tensile strength (minimum 1,5 MPA). The surface should be primed with an epoxy primer and sand carpet. Once dry the excess of sand left should be vacuumed.

Precast

Along precast process use laminated plywood, oiled wood, as well as silicon and plastic moulds, as ideal components to avoid cement based material sticking on its moulds. For inserts and other elements it is a good idea to use foam boards. These can be covered with tape to avoid adhesion. Make sure that precast element is balanced in thickness to the use and size of the furniture, avoiding breaks when transported. Precast elements made from Tech Terrazzo have, more or less, the same resistance as traditional elements like terrazzo tiles.

Mixing and Application

Material is best applied between 50-86°F (10-30°C). Tech Terrazzo is preferably mixed in a traditional concrete mixer. As standard, when working with decorative materials, make sure the machinery is well cleaned. Add water and aggregates to the concrete mixer. With that add the powder as well, keep mixing till getting a homogeneous concrete mix with a good workability. Add the material to the mould. Trowel it into place and vibrate. Cover the material with plastic and let it dry for 5-7 days.

The moulded material should be treated like natural scone/mineral surfaces. Obtained finished materials are hard but can break and chip off, if hit with hard objects



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Finishing

Tech Terrazzo is sealed like traditional concrete. Get in touch with our technical department for specific use, queries or support like furniture etc.

