

NOVACEM MICRO TERRAZZO

Cement based binder for creating small thickness terrazzo

- ▷ **Suitable for internal & external areas**
 - ▷ **Very small thickness, 6 – 10 mm**
 - ▷ **Excellent workability**
 - ▷ **High mechanical strength with great resistance to ageing**
 - ▷ **Fast application**
 - ▷ **High adhesion on the majority of building materials**
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Description

NOVACEM MICRO TERRAZZO is a two-component resinous cementitious mortar. Suitable for any indoor or outdoor surface. It mixes with a multitude of aggregates to create terrazzo outdoors and indoors. The easy application on horizontal surfaces and at the same time the very high adhesion with the high mechanical strengths, make it an ideal system of cementitious decorative terrazzo coatings.

Certifications

CE Marking and Declaration of Performance (DoP) C08318-CPR-2255071 as a two-component floor screed for interior and exterior use according EN 13813 category CT-C50-F10-A12-B2.

Uses

NOVACEM MICRO TERRAZZO is suitable for creating floors:

- Terrazzo surfaces of small thickness from 6 - 10 mm
- Investment of constructions and furniture such as tables, benches, sinks,

For applications on horizontal surfaces such as:

- Outdoors, floors, terraces, verandas, etc.
- Indoors, showers, bathrooms, and areas with humidity
- Heavy traffic areas, airports, hotels, shops
- Underfloor heating

For installations on several substrates such as:

- Concrete and cement mortars
- Existing coatings such as tiles, marbles, old terrazzo, etc.
- Metal and wood with a suitable primer

Technical Data

Product Identity

	Part A	Part B
Form	Powder	Liquid
Color	White	White
Chemical substance	Portland cement, aggregates, special additives	Resin dispersion
Granulometry	D_{max} : 0,12 mm	
Bulk density	1,5 ± 0,1 kg/l	
Density		1,08 ± 0,02 kg/l
Storage	12 months on dry area in the original sealed packaging	

Mechanical Characteristics

Mixing ratio	7,5 kg powder: 1 kg latex & 1 – 1,5 kg water	
Addition of aggregates	3,5 – 17 kg per package, 30 – 70 % of the powder	
Density of the mix	2,1 ± 0,1 kg/L	EN 1015-6
Dry density	2,0 ± 0,1 kg/L	EN 12190
Application temperature	from +5°C up to +35°C	
Pot life	45 – 60 min / 20°C	EN 13395-1
Minimum thickness	2 times the maximum grain size of aggregates	
Walkability	5 - 6 hours	

Final performance according to EN 13813:2002

Compressive strength	1d	≥ 8 N/mm ²	
	7d	≥ 35 N/mm ²	EN 13892-2
	28d	≥ 50 N/mm ²	
Flexural strength	1d	≥ 2 N/mm ²	
	7d	≥ 7 N/mm ²	EN 13892-2
	28d	≥ 10 N/mm ²	
Adhesion		≥ 2,5 N/mm ²	EN 13892-8
Wear resistance		≤ 12 cm ³ / 50 cm ²	EN 13892-3
Thermal resistance		1,65 W/mK	EN 12524

Application Procedure

Substrate Preparation

Cement based substrates must be compact, level, clean, free of grease, oil, laitance, and any substances which may compromise the adhesion of NOVACEM MICRO TERRAZZO. The minimum flexural strength shouldn't be less than 1,5 N/mm² and the minimum compressive strength at least 25 N/mm². Existing cracks on the substrate should be bonded with the fluid epoxy resin NOVAMIX EPO FLUID. On the still fresh NOVAMIX EPO FLUID surface, scatter NOVAMIX S 500 silica sand or similar to create a mineral surface.

Absorbent substrates should be primed with PLANOPRIMER to increase the adhesion and provide a sealed substrate. A substrate of reduced strength should receive consolidation treatment by means of NOVAPRIMER or NOVAMIX WATER PRIMER EPX and full coverage with the sand NOVAMIX S 500, by scattering on the still wet primer surface.

Existing floor coverings like in example ceramic tiles, Gres porcelain, marble, terrazzo etc. must be firmly attached on the substrate. They also must be clean and free of laitance or any substance which will compromise adhesion on them. If required, use for cleaning ALCALINE CLEANER or ACID CLEAN TURBO depending on the type of stain, and rinse well with water. Prime the clean and dry covering with PLANO CONTACT FAST. For external area applications, the substrate must be waterproofed first by using SC ELASTIC, SC ELASTIC EASY or SC 200 PENETRATE. For additional information refer to the Technical Data Sheets of the products.

Preparation of the mix

In the bucket containing the powder empty the recipients containing the PREMIUM LATEX and the pigments in liquid form NOVACOLOR DESIGN, according to the desired color, of the relevant PLANOCOLOR MICROCEMENT color chart. According to the required workability for every 1kg of PREMIUM LATEX 1-1,5L of clean water must be added. Mix by means of electrical stirrer for at least 3 min until you obtain a uniform mix free of lumps. Then, while stirring add the granulates at a rate depending on the aesthetics requirements of the application. The mix has to be used within 45 – 60 min after mixing in normal conditions. After this time don't try to soft the mix by adding water.

Application

The laying of the mortar follows the general rules applicable to low thickness floor coatings. Apply the fluid mixture on the substrate in one layer and of thickness 2 - 3 times the maximum aggregate grain size by using a flat plastic or metal trowel. Then smooth the surface.

Depending on the composition of the mixture and the conditions of the application the grinding process begins after 24 - 48 hours. For the mechanical and abrasive agents always following the manufacturer's instructions such as suitability, rotational speed, wet or dry processing.

During the grinding procedure exists a possibility that a small bubble developed in the mixture during mixing to be exposed on the surface. The filling of these holes is recommended to be done with the initial grinding at intermediate stage when all embedded aggregates appear uniformly on the

surface. After thoroughly cleaning the entire application area of the dust and abrasive residues by rinsing with water and sucking the wastewater, smoothing can be done by using NOVACEM MICRO TERRAZZO mix without the aggregates. Alternative, but only for interior application, you can use PLANOFINISH CRYSTAL to fill the micro holes.

Expansion joints

The expansion joints incorporation depends on the use of the surface and the dimensions of the area. In internal areas every 5 - 7 linear meters and in external areas every 5 linear meters.

Recommendations

- Apply only on solid and properly primed substrate
- Do not add water in quantity higher than the recommended and do not add water when the mixture starts to set
- Do not cover or apply the product over existing expansion joints of the substrate
- Do not apply the coating on substrates with rising damp or in total water immersion without substrate waterproofing
- Do not add cement, gypsum, lime or other binders which might influence the properties of the mortar
- Don't apply the coating on substrates and/or areas with temperature less than +5°C or higher than +35°C
- Do not apply directly over anhydrite screeds, metal or flexible substrates with high deformability and intense vibration
- Do not apply upon deformable substrates, surfaces subjected to vibration
- Do not apply upon non-absorbent substrates such as metal, glass, old ceramic tiles and mosaics without applying appropriate primer
- Application must be done by professional applicators

Consumption

The NOVACEM MICRO TERRAZZO consumption depends on the application system and varies from 1,0 -1,1 kg/m² plus the aggregates.

Cleaning

Tools, buckets, tiles etc. can be cleaned with fresh and clean water if, NOVACEM MICRO TERRAZZO is still fresh. After hardening occurs, cleaning can take place only by mechanical means.

Storage

NOVACEM MICRO TERRAZZO remains stable for at least 12 months in the original sealed packaging stored in a dry place in temperature between +5°C and +35°C.

Packaging

Plastic buckets of 7,5 + 1 kg.

Safety Instructions

For information and instructions regarding disposal and safe handling, users should refer to the latest Safety Data Sheet of the product containing ecological, toxicological and other safety related data.

Legal notes

The technical data and recommendations contained or listed in this leaflet are the result of laboratory measurements, of our current knowledge and experience. All the above-mentioned information and specifications should in any case be considered as indicative, as they may differ from each other. The Company makes every effort to ensure the accuracy of the information provided herein. Product specifications, prices and availability are subject to change without notice and may differ from those shown.

In practice, variations in materials, substrates and on-site implementation conditions are such that no warranty can be given or implied, as to the merchantability or suitability of the materials for a particular purpose and for the exact conditions of each project. Anyone interested of using the product must be sure beforehand that the product is suitable for the intended use and in any case, the user is solely responsible for any consequences due to the use of the product. Among other things, the Company is not responsible for any normal wear or tear from environmental or other inappropriate conditions. We reserve the right to revise or change the data herein without prior notice.

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For the latest and a valid version of the Technical Data Sheet, the user of the material must refer to our website www.novamix.gr or directly to the QR Code of the product.



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