



# NOVACEM TERRAZZO

Cement-based binder for creating terrazzo

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- ▷ **For creating non-shrinkable terrazzo**
  - ▷ **Suitable for interior and exterior floors**
  - ▷ **Suitable for permanent immersion in water**
  - ▷ **High mechanical strength**
  - ▷ **Excellent workability**
  - ▷ **High resistance to aging**
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## Description

NOVACEM TERRAZZO is a powdered cementitious hydraulic binder with natural and synthetic additives. It is combined with a variety of aggregates to create polished mosaics for exterior and interior areas, as well as special constructions. With PLANOCOLOR GRANULATES and water, it creates a high-quality, non-shrinking, fast-curing mixture that is ideal for decorative coatings - small-thickness terrazzo.

VOC emission classification GEV-Emicode EC1<sup>PLUS</sup>.

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## Uses

NOVACEM TERRAZZO can be used in application such as:

- Terrazzo floors, cast-in-place or pre-fabricated for floor and wall applications
- Furniture, tables, offices, benches

For horizontal and vertical applications:

- Exterior areas
- Interior areas, bathrooms and wet areas
- Under floor heating floors
- In areas with heavy traffic, showrooms, commercial centers, public buildings, or offices
- Furniture, tables, offices, benches

For placement on various substrates such as:

- Concrete
- Cement mortars
- Existing overlays such as mosaics, etc

## Technical Data

### Product Identity

Form	Powder
Color	White & Grey
Chemical substance	Portland cement, special additives
Bulk density	1,0 ± 0,1 kg/L
Storage	12 months on dry area in the original sealed packaging

### Characteristics

NOVACEM TERRAZZO	25 kg	
Planocolor Granulates MIX A	50 kg, color depending on the composition	
Planocolor Granulates, MIX B	25 kg, color depending on the composition	
Planocolor Granulates, decorative grain	5 – 35 kg, grain and color depending on the composition	
Mixing ratio	10 – 11 L water	
Density of the mix	2,1 ± 0,1 kg/L	EN 1015-6
Dry density of the mix	2,0 ± 0,1 kg/L	EN 12190
Application temperature	from +5°C up to +30°C	
Workability	~ 45 - 60 min/20°C	
Application thickness	12 – 30 mm depending on the composition	
Walkability	2 – 4 hours	

### Final performance with 11 water/mix ratio

Compressing strength	≥ 40 N/mm <sup>2</sup>	EN 13892-2
Flexural strength	≥ 9 N/mm <sup>2</sup>	EN 13892-2
Adhesion	≥ 2,0 N/mm <sup>2</sup>	EN 13892-8
Wear resistance	A6	EN 13892-3
Shrinkage	< 0.05%	EN 12617-4
Thermal compatibility part 1	≥ 2,0 N/mm <sup>2</sup>	EN 13687-1
Reaction to fire	A1	EN 13501-1

## Application Procedure

### Substrate Preparation

Concrete and cement mortars must be dry, sufficiently mature, and free from the risk of cracking. Furthermore, the surface must be free of dust, dirt, oils, grease, rust, and other elements that will interfere with adhesion. Remove all loose and friable sections of concrete or cement mortar until the substrate is compact and firm with a tensile strength of at least 1.5 N/mm<sup>2</sup>. Existing cracks should be repaired with two-component injectable epoxy adhesive EPO FLUID. Substrates with low mechanical strength must be reinforced with NOVAPRIMER or WATER PRIMER EPX, as needed.

For monolithic bonding to the substrate use EPO FLUID or alternatively the adhesive primer consisting of 1part SBR 50, 1 part water and 4 parts NOVACEM TERRAZZO and apply the mortar fresh on fresh to the adhesive layer.

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### Preparation of the mix

Fill a suitable concrete or pan mixer with the required amount of water. Add NOVACEM TERRAZZO to the water slowly while stirring, followed by the aggregates. Mix for at least 3 minutes, or until the mixture is completely homogenized and free of lumps. The mixture is now ready to be used.

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### Application

Using a flat spatula or trowel, apply the mixture. Final smoothing can be accomplished with finishing tools such as a flat metal trowel. The application thickness is determined by the maximum grain size of the aggregates used.

Under normal conditions, the mortar should be applied within 45 - 60 minutes of mixing. After this time, do not attempt to mix it with water again. Low temperatures prolong the life of the mortar, whereas high temperatures significantly reduce workability.

It is recommended to use the mineral hardener/concrete densifier PLANOFINISH CH PLUS 24 - 48 hours after the application.

### Polishing

It is done with a suitable sanding machine 24 - 72 hours after application. To seal micro-holes caused by trapped air during mechanical grinding, use NOVACEM MF in the corresponding shade as a filling material.

After the initial surface sanding, use the special water-based hardener/condenser PLANOFINISH CH to increase gloss and surface mechanical resistance. After using abrasives of 200 or 400 grit, this is the recommended application.

PROTECT 900 S provides water- and oil-repellent protection.

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### Expansion joints

The location of each expansion joint is determined by the surface's use and the geometry of the space. The general rules for mortar manufacturing, as well as the guidelines of the BS 8204-3 standard, must be followed.

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## Recommendations

- Apply in structurally stable and well-prepared surface
- Avoid application with direct exposure to sunlight and/or strong wind as well as rain
- Once the mixture begins to set, do not add any more water or additives
- Do not apply to existing substrate expansion or movement joints
- Do not mix NOVACEM TERRAZZO with gypsum, cement, resins, latex, or other binders
- Do not use on non-absorbent substrates such as metal, glass, old ceramic tiles, and mosaics without first applying an appropriate primer
- After 7-10 days, complete immersion in water
- Do not apply when temperature of the substrate and environment is lower than +5°C and higher than +30°C
- Do not apply directly to anhydride substrates, metal, flexible or high vibration surfaces
- It is not recommended to use different batches on uniform surfaces. Where a specific shade is required, mixing with NOVACOLOR OXIDE or NOVACOLOR UNIVERSAL in an appropriate proportion is recommended
- Application must be done by professional applicators

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## Consumption

The consumption of NOVACEM TERRAZZO is 0,4 – 0.5 kg/m<sup>2</sup>/mm of thickness.

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## Cleaning

Tools used during the preparation and application can be cleaned with water while NOVACEM TERRAZZO is still fresh. If hardening occurs, cleaning can be done only by mechanical means.

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## Storage

NOVACEM TERRAZZO remains stable for 12 months from production date inside its original sealed packaging, stored in protected dry area in temperature between +5°C and +35°C.

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## Packaging

Multi-layer paper bags of 12.5 kg.

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## 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.

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## 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

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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](http://www.novamix.gr) or directly to the QR Code of the product.

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**DOMOCHEMICAL S.A.**  
40 Papanikoli str.  
Chalandri, 15232, Athens  
T +30 210 68 93 953  
F +30 210 68 94 571  
[novamix@novamix.gr](mailto:novamix@novamix.gr)