

PLANOCOLOR PREMIUM 2K

Two component microcement coating for walls & floors

- ▷ **Suitable for internal & external areas**
 - ▷ **Excellent workability on both horizontal & vertical surfaces**
 - ▷ **High mechanical strength**
 - ▷ **Fast application**
 - ▷ **High adhesion on the majority of building materials**
 - ▷ **Great resistance to ageing**
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Description

PLANOCOLOR PREMIUM 2K is a two component cementitious coating which can be applied in internal and external surfaces. The easy application on horizontal and vertical surfaces, combined with high mechanical strength and adhesion, make it an ideal microcement coating for new constructions and renovations

Certifications

Meets the requirements claimed by EN 13813 with Declaration of Performance (DoP) C07095-CPR-1670012 as a two component microcement coating for internal and external areas on walls and floors category CT-C60-F10-A6-B2.

Uses

PLANOCOLOR PREMIUM 2K is suitable for creating:

- Decorative microcement coatings
- Decorative coatings of constructions and furniture such as tables, benches built in sinks etc

For application on horizontal and vertical surfaces such as:

- External areas, swimming pools, floors, walls, roof tops, balconies, etc.
- Internal areas, bathrooms, and wet areas
- Surfaces with intense traffic, hotels, showrooms, houses
- Underfloor heating installations

On substrates such as:

- Concrete, cement screeds, gypsum boards and cement boards
- Existing coverings such as ceramic tiles, marble, terrazzo
- Glass, metal and wood properly primed

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		
Specific gravity of the mix	1,8 ± 0,1 kg/l		EN 1015-6
Dry density	1,8 ± 0,1 kg/L		EN 12190
Application temperature	from +5°C up to +35°C		
Pot life	1 – 1,5 hours / 20°C		EN 13395-1
Minimum thickness	2 mm		
Walkability	5 - 6 hours		
Compressive strength	1d	≥ 10 N/mm ²	EN 13892-2
	7d	≥ 45 N/mm ²	
	28d	≥ 60 N/mm ²	
Flexural strength	1d	≥ 4 N/mm ²	EN 13892-2
	7d	≥ 10 N/mm ²	
	28d	≥ 15 N/mm ²	
Adhesion		≥ 2,5 N/mm ²	EN 13892-8
Wear resistance		≤ 6 cm ³ / 50 cm ²	EN 13892-3
Thermal conductivity coefficient	1,35 W/mK EN 12524		
Spectral reflection factor (300 – 2500 nm)*		76%, Color: 9003+10%	ASTM G173-03
		33%, Color: 7040	
		6%, Color: 9017	

*: Values without varnish. With two layers of PLANOFINISH PU 2KW MAT values are reduced from 1-3%.

Application Procedure

Substrate Preparation

Cement based substrates have to be compact, level, clean, free of grease, oil, laitance and any substances which may compromise the adhesion of PLANOCOLOR PREMIUM 2K. The minimum flexural strength shouldn't be less than 1,5 N/mm² and the minimum compressive strength at least 25 N/mm². The application surfaces must be dry and protected from rising humidity with max moisture content <4% by weight measured with the CM or Darr method. Concrete substrates should be first properly prepared by mechanical polishing in order to obtain a uniform absorbent substrate with open porosity without protruding edges. If levelling is required, it is recommended to use mortars with controlled shrinkage and drying such as PLANO 120, RC 240 or NOVACEM RAPID FLOW according to the requirements of each application. 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 in order to create a mineral surface.

Absorbent substrates should be primed with PLANOPRIMER in order to increase the adhesion and provide a sealed substrate. 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. have to be firmly attached on the substrate. They also have to 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 depending on the type of stain and rinse well with water. Prime the clean and dry covering with PLANO CONTACT. For external area applications, swimming pools the substrate has to be waterproofed first by using SC ELASTIC 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. This water is used to clean the recipients of both PREMIUM LATEX and NOVACOLOR DESIGN, in order to ensure the uniform color between different buckets mixes as well as that all the quantity of both products is inside the mix. Mix by means of electrical stirrer for at least 3 min until you obtain a uniform mix free of lumps. The mix has to be used within 1,5 hours after mixing in normal conditions. After this time don't try to soft the mix by adding water. Low temperatures extend and high temperatures reduce the workability of the mix.

Application

Apply two or three coats according to the desired finish. On horizontal surfaces apply the first coat by means of a notched trowel 6 x 6 incorporating, inside the still fresh mortar, the alkali resistant NOVAMIX FIBERGLASS NET. The net incorporation is recommended also for vertical surfaces in order to function as

a thickness indication of the coating. Apply a second coat after the coating becomes hard after 6 hours in normal conditions, ensuring that the net is fully covered. If required, an additional coating or subsequent coatings can be applied in order to reach the desired pattern. It is recommended to prime between coats with PLANOPRIMER diluted 1:1 with water. In order to obtain an extra smooth and minimal texture it is recommended to slightly sand the finished surface, in order to eliminate any small irregularities. The sandpaper grain size must be chosen according to the requirements. After 24 hours from the application of the coating and after checking humidity content, an appropriate waterproofing sealing system must be applied. One of the DRY BRIGHT, PROTECT 200, PLANOFINISH EPOXY or any of the PLANOFINISH PU varnishes can be used, according to the requirements of each application. For applications inside swimming pools it is recommended to use PLANOFINISH PU 2KS. For additional information refer to the Technical Data Sheets of the products.

Expansion joints

The expansion joints incorporation depend on the use of the surface and the dimensions of the area. In internal areas every 7 - 10 linear meters and in external areas every 5 - 7 linear meters.

Recommendations

- Apply only on solid and properly primed substrate
- Avoid application under direct sunlight and/or strong drying wind or rain
- 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 substances 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.
- Application should be performed by professional user

Consumption

The PLANOCOLOR PREMIUM 2K consumption depends on the application system and varies from 2 - 2,5 kg/m² for walls and 2mm thickness till 3 - 3,2 kg/m² for floors and horizontal application with fiberglass net incorporation.

Cleaning

Tools, buckets, tiles etc. can be cleaned with fresh and clean water as long as, PLANOCOLOR PREMIUM 2K is still fresh. After hardening occurs, cleaning can take place only by mechanical means.

Storage

PLANOCOLOR PREMIUM 2K remains stable for at least 12 months in the original sealed packaging stored in 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.

Warning

The technical data and recommendations contained in this leaflet correspond to the best of our knowledge and experience. All the above mentioned information in any case should be considered as merely indicate and subject to confirmation after long term practical applications. For this reason anyone interested of using the product must be sure beforehand that the product is suitable for the envisaged application. In every case the user alone is fully responsible for any consequences deriving from the use of the product. We retain the right of renewal of the data of the leaflet without warning. For the latest and valid version of the Technical Data Sheet refer to use website www.novamix.gr or directly to the following QR code of the product.



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