

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-2170013 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, floors, walls, rooftops, 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	$1,5 \pm 0,1$ kg/l	
Density		$1,08 \pm 0,02$ 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	
Density of the mix	$1,8 \pm 0,1$ kg/l	EN 1015-6
Dry density	$1,8 \pm 0,1$ 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 7d ≥ 45 N/mm ² 28d ≥ 60 N/mm ²	EN 13892-2
Flexural strength	1d ≥ 4 N/mm ² 7d ≥ 10 N/mm ² 28d ≥ 15 N/mm ²	EN 13892-2
Adhesion	$\geq 2,5$ 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	EN 12524
Spectral reflection factor (300 – 2500 nm)*	76%, Color: 9003+10% 33%, Color: 7040 6%, Color: 9017	ASTM G173-03

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

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 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 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 two-component epoxy resin NOVAMIX EPO FLUID or EPO PASTE. Absorbent substrates should be primed with PLANOPRIMER. Substrate of reduced strength should receive consolidation treatment by means of NOVAPRIMER or WATER PRIMER EPX.

On surfaces with reduced absorbency such as mosaics, ceramic tiles or marbles well fixed, prime with PLANO CONTACT FAST.

For external area applications, 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, to ensure the uniform color between different buckets mixes as well as that all the quantities of both products is in the mix. Mix by means of electrical stirrer for at least 3 min until you obtain a uniform mix free of lumps. The mix must 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 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 to reach the desired pattern. It is recommended to prime between coats with PLANOPRIMER diluted 1:1 with water. 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 additional information refer to the Technical Data Sheets of the products.

Expansion joints

The expansion joints incorporation depends 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 users

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 - 3,5 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 a dry place in temperature between +5°C and +35°C.

Packaging

Plastic buckets of (7,5+1) kg and (15+2) 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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