

PLANOCOLOR PREMIUM SP

Two component microcement coating for walls & floors



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

Description

PLANOCOLOR PREMIUM SP is a two-component, cementitious coating which can be applied in internal and external surfaces and even total water immersion. 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

CE Marking with Declaration of Performance (DoP) C07096-CPR-2255111 as a two component microcement coating for internal and external areas on walls and floors category CT-C60-F10-A6-B2 according EN 13813 and

Declaration of Performance (DoP) C07096-CPR-2230902 as two-component cement-based protection for concrete from humidity and increased resistance according to EN 1504-2:2004.

Uses

PLANOCOLOR PREMIUM SP 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, 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	$D_{max}: 0,12 \text{ mm}$	
Bulk density	$1,5 \pm 0,1 \text{ kg/l}$	
Density		$1,08 \pm 0,02 \text{ kg/l}$
Storage	12 months on dry area in the original sealed packaging	

Application data (+23°C & 50% R.H.)

Mixing ratio	15 kg powder: 2 kg latex & 2 – 3 kg water	
Specific gravity of the mix	$1,8 \pm 0,1 \text{ kg/l}$	EN 1015-6
Dry density	$1,8 \pm 0,1 \text{ kg/L}$	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	

Final performance according to EN 1504-2:2004

	Performance	Requirement	Method
Water vapour permeability	$S_d \approx 3 \text{ m}$	Class I: $S_d < 5 \text{ m}$	EN 7783
Capillary water absorption	$\approx 0,04 \text{ Kg / m}^2 \text{ h}^{0,5}$	$< 0,1 \text{ Kg / m}^2 \text{ h}^{0,5}$	EN 1062-3
Adhesion by Pull-off test	$\geq 2,0 \text{ N/mm}^2$	$\geq 2,0 \text{ N/mm}^2$	EN 1542
Compressive strength	$\geq 60 \text{ N/mm}^2$	Class II: $\geq 50 \text{ N/mm}^2$	EN 12190
Thermal Compatibility Part 1:	$\geq 2,0 \text{ N/mm}^2$	$\geq 2,0 \text{ N/mm}^2$	EN 13687-1
Thermal Compatibility Part 2:	$\geq 2,0 \text{ N/mm}^2$	$\geq 2,0 \text{ N/mm}^2$	EN 13687-2

Final performance according to EN 13813:2002

Compressive strength	1d	$\geq 10 \text{ N/mm}^2$	
	7d	$\geq 45 \text{ N/mm}^2$	EN 13892-2
	28d	$\geq 60 \text{ N/mm}^2$	
Flexural strength	1d	$\geq 4 \text{ N/mm}^2$	
	7d	$\geq 10 \text{ N/mm}^2$	EN 13892-2
	28d	$\geq 15 \text{ N/mm}^2$	
Bond strength		$\geq 2,5 \text{ N/mm}^2$	EN 13892-8
Wear resistance		$\leq 6 \text{ cm}^3 / 50 \text{ cm}^2$	EN 13892-3
Thermal conductivity coefficient		1,35 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 PLANOCOLOR PREMIUM SP. The minimum flexural strength shouldn't be less than $1,5 \text{ N/mm}^2$ and the minimum compressive strength at least 25 N/mm^2 . 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 RC 220 or NOVACEM RAPID according to the requirements of each application.

Existing cracks in the substrate should be repaired using two-component epoxy adhesives such as EPO FLUID or EPO PASTE, depending on the situation. Absorbent substrates should be primed with acrylic primer PLANOPRIMER. Substrates with inadequate mechanical strength should be primed with NOVAPRIMER or WATER PRIMER EPX as needed. For surfaces with reduced porosity, such as mosaic tiles, ceramic tiles, or well-bonded marbles, it is recommended to apply a pre-coating with PLANO CONTACT FAST. For applications on outdoor floors, it is advisable to waterproof the substrate with SC ELASTIC, SC ELASTIC EASY, or SC 200 PENETRATE. For more information, refer to the respective 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 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 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, 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 in 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 depends on the use of the surface and the dimensions of the area. In internal areas every 7 linear meters and in external areas every 5 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.
- For applications in total water immersion it is recommended to use the NOVACOLOR DESIGN pigments with SP indication from the relevant PLANOCOLOR MICROCEMENT color chart
- Application should be performed by professional users

Consumption	The PLANOCOLOR PREMIUM SP consumption depends on the application system and varies from 2 - 2,5 kg/m ² for walls and 2mm thickness till 3 - 3,2 kg/m ² 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 SP is still fresh. After hardening occurs, cleaning can take place only by mechanical means.
Storage	PLANOCOLOR PREMIUM SP 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 (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.

Restrictions and disclaimers apply to the extent permitted by applicable law. The Company has a Technical Support Department, which is the only one responsible for providing technical advice and solutions to deal with problems. Requests to the Technical Support Department are addressed and answered, only in writing.

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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