

PLUS MICROCEMENTO

Single-component microcements for smoothing and finishing



Product description

Single-Component Microcement Microcement based on calcium cements, selected aggregates, and powdered additives. Primarily formulated for application in thin layers to create continuous decorative surfaces with high hardness on floors and walls in residential spaces, commercial premises, furniture, etc., as well as any stable surface intended for non-industrial use.

Product Variants:

PLUS GRUESO(fiber-reinforced): Smoothing for floors and walls

PLUS BASE: Smoothing and finishing for floors and walls

PLUS MEDIO: Slightly textured finish

PLUS FINO: Smooth finish

Properties

Decorative Continuous Coating can be applied over concrete, ceramic, terrazzo, and rigid mortars. Excellent workability when used with both “wet-on-wet” and “wet-on-dry” techniques. High hardness and crack resistance. Wide range of textures depending on granulometry and application technique.

Substrate Preparation

Cement-based surfaces must be fully cured after 28 days of drying and have a minimum compressive strength of 1.5 N/mm². The substrate must be clean and dry, free of cracks, oil, grease, or any contaminants that may hinder the proper adhesion of microcement. Mechanical surface preparation methods—such as milling or diamond grinding—are always recommended.

Once the surface to be coated is properly prepared, apply two coats of P541 primer on cement-based substrates, ceramic, terrazzo, and marble.

If the substrate shows moisture due to groundwater or rising damp, carry out a waterproofing treatment using ESTILPOX DPM primer.

For consolidating and repairing substrate cracks, use ESTILPOX P100 primer, and saturate it with quartz aggregate.

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Instructions for use

Plus microcements should only be mixed with clean or pigmented water. Pour the indicated amount of water into a clean bucket, add the corresponding pigment quantity and stir. Gradually add the powder and mix using a low-speed mixer for 2 to 3 minutes until a lump-free mixture is achieved. Let the mixture rest for 3 to 4 minutes, then stir again for another 2 to 3 minutes.

The working time is approximately 1 hour, which may vary depending on ambient temperature and mixing water temperature. If the mixture thickens during this time, gently stir it with a trowel—do not add extra water once mixed.

Application should take place at ambient temperatures between 10°C and 25°C

Water Mixing Ratios :

20Kg de Plus GRUESO: 3,2-3,6 liters of clean or pigmented water.

20Kg de Plus BASE: 5-5,5 liters of clean or pigmented water.

20Kg de Plus MEDIO: 5-5,5 liters of clean or pigmented water.

20Kg de Plus FINO: 6,5-7 liters of clean or pigmented water.

Refer to the application manuals and system sheets for related products and details of the application process for each system.

Performance

Consumption may vary depending on the substrate's roughness and flatness:

	PLUS GRUESO	PLUS BASE	PLUS MEDIO	PLUS FINO
Consumption m ² / in two layers	3-3,3Kg	2,3Kg	1-1,2Kg	0,8-1Kg
Bucket format	20 y 5Kg	20 y 5Kg	20 y 5Kg	20 y 4Kg

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Technical Data

PROPERTIES	PLUS GRUESO	PLUS BASE	PLUS MEDIO	PLUS FINO
Appearance	Powder	Powder	Powder	Powder
Color	White	White	White	White
Mixing Component	Water	Water	Water	Water
Mixture density	Aprox. 1,80 gr/cc	Aprox. 1,74 gr/cc	Aprox. 1,72 gr/cc	Aprox. 1,62 gr/cc
Mix working life	1 hour at 20°C	1 hour at 20°C	1 hour at 20°C	1 hour at 20°C
Solid content	100%	100%	100%	100%
Maximum aggregate size	0,6mm	0,4mm	0,2mm	Impalpable
Adhesion strength – UNE-EN 13892-8:2003	2,1 N/mm ²	2,4 N/mm ²	2,1 N/mm ²	2,6 N/mm ²
Impact resistance – UNE-EN ISO 6272:2012	>14,7 N/mm ²	>14,7 N/mm ²	>14,7 N/mm ²	>14,7 N/mm ²
Wear resistance (Böhme method) – UNE-EN 13892-3:2003	21,3 cm ³ / 50 cm ²	17,7 cm ³ / 50 cm ²	17,3 cm ³ / 50 cm ²	17,1 cm ³ / 50 cm ²
Compressive strength (after 28 days) UNE-EN 13892-2:2003	42,4 N/mm ²	34,4 N/mm ²	32,8 N/mm ²	27,9 N/mm ²
Flexural strength (after 28 days) UNE-EN 13892-2:2003	10,9 N/mm ²	10,0 N/mm ²	9,6 N/mm ²	9,4 N/mm ²

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Tool Cleaning

Tools must be cleaned immediately after use with water. Once the product has hardened, tools can only be cleaned by mechanical means.

Storage

Store in its original sealed container, protected from weather exposure, at temperatures between 10–25°C, in a dry and well-ventilated area. Keep away from heat sources and direct sunlight.

Shelf life is one year from the date of manufacture when stored correctly.

Safety Instructions

This product contains cement, which may affect the eyes, skin, and mucous membranes. Therefore, it is recommended to use a mask, gloves, and protective goggles.

Note: This technical sheet, like all other recommendations and technical information, is intended solely to describe the product's characteristics, usage method, and applications. The data and specifications provided are based on our technical knowledge obtained from literature, lab testing, and practical experience.

Consumption and dosage figures are based on our own experience and are subject to variation depending on site conditions. Actual values must be verified through on-site testing and are the responsibility of the customer.

For further guidance, consult our technical support service. Microestil Cement, s.l. reserves the right to modify product composition, provided it continues to meet the specifications described herein. Applications of the product outside the stated recommendations are not our responsibility.

Warranty is provided in cases of manufacturing defects only. Additional claims are excluded. Our responsibility is limited to reimbursing the value of the supplied goods.

This technical sheet becomes void upon the release of a new edition.