MATERIA MATTERS

Minera XL
Lime-based microcement

Product Description

Two-component lime-based microcement for continuous coatings on floors and walls for decorative finishes. Specially developed and produced for Materia Matters by Topciment.

Uses

This system is a high-performance continuous coating suitable for application on floors, vertical surfaces, stairs, ceilings, and even furniture. Its high functional and aesthetic versatility makes it an ideal solution for both residential projects and commercial spaces, large-scale installations like sports centers, industrial facilities, and high-traffic environments such as hotels and restaurants.

Properties

- Seamless continuous coating (always respect expansion joints). Thickness between 2-4mm
- Notable for its artisanal finish, workability, and extreme hardness.
- Applied with a trowel in several layers, allowing for a wide range of effects like tadelakt or exposed concrete finishes. Excellent workability. Wide range of colors and effects.
- Applicable on almost any type of surface, both horizontal and vertical.
- High mechanical resistance and strong adhesion to any type of substrate: concrete, cement mortars, ceramics, MDF, plaster, and drywall.
- Excellent abrasion resistance, especially in high grain sizes.
- As part of an application system, the substrate is prepared with Materia Matters microcement BASE in XL grain, followed by the Minera XL finish.

Description

Materia Matters offers eight types in four categories of grain size. As preparation grain size XL or L is recommended, before applying any of the finishing layers, which are; Minera, Sandura, Lumora, Marora, Earthea and Arborea.

Classification of Materia Matters microcements by particle size and recommended application

MM microcement	Particle size (mm)	Recommended application
XL	0.4	Preparation and finishing floors
L	0.3	
M	0.18	Interior Floor / Wall Finishing
S	0.125	Wall Finishing

Technical Data

MICROCEMENT PROPERTIES COMPONENT A	SPECIFICATION	UNIT	METHOD
Characteristics	Powder		
Composition	Cement, additives, and selected aggregates		
Maximum Aggregate Size	0.4	mm	
Apparent Density in Powder	1175±50	Kg/m3	
RESIN PROPERTIES COMPONENT B	**SPECIFICATION**	**UNIT**	**METHOD**
Characteristics	Milky liquid		
Composition	Polyacrylate in emulsion		
Density Comp. B	1.03±0.01	g/cm3	UNE-EN ISO 2811-1
Viscosity At 23°C Comp. B	<100	mPa·s	EN ISO 3219
Non-Volatile Content Comp. B	22-23	%	UNE-EN ISO 3251:2020
pH Comp. B	9-10		UNE-EN ISO 19396-1:2020

MIX PROPERTIES A+B	TYPE	UNITS
Mix Ratio	20Kg of microcement per every 6 L of resin	
Yield in two coats	2	kg/m²
Apparent Density in Paste	1480±50	Kg/m3
Apparent Density Hardened	1430 ±50	Kg/m3
Pot life at 20°C (lifespan)	60	min.
Minimum drying time between coats	4	hours
Number of layers	2	
System thickness	1-3	mm
Trowel type (material)	Metallic	
Sandpaper grit	40	
Application temperature	5-30	°C
Air humidity	65-90	%

Certificates: Declared performance CE marking

EN 13813:2002	XL	UNITS
Compressive strength 28 days (EN 13892-2)	49.7	Mpa
Flexural strength 28 days (EN-13892-2)	13.4	Mpa
Adhesion strength (EN 13892-8)	>1.5	Mpa
Fire behavior (EN13501-1)	Bfl-s1	

Application

1.1. Surface Preparation.
The application surface must be clean and free from grease, with a stable base in good planimetric condition

1.2. Priming.

Before applying Materia Matters Base microcement, it's crucial to properly prepare the surface tailored to its specific conditions. Depending on the type and state of the substrate, specific technical solutions may be necessary, such as integrating the flat, flexible fiberglass mesh for structural reinforcement, using PREFIX PLUS primer on non-absorbent surfaces or PREFIX ABS on absorbent surfaces, as well as applying moisture barriers against capillary or vapor using PREFIX Joint.

In any case, it is recommended to apply the microcement while the primer still has tackiness to ensure optimal adhesion. If the primer fully cures and loses tackiness (especially with epoxy-based primers), adhesion is reduced, and detachment may occur. If the primer is already dry, the surface must be sanded before applying the microcement to restore anchoring. In all cases, it is essential to strictly follow the technical advice provided by our specialists and consult the specific technical data sheets for each product.

1.3. Mixing.
Materia Matters microcement is combined with resin and pigments based on the chosen color. To ensure the coating's properties, it's crucial to maintain the correct ratio between microcement and resin. Prepare the mortar as follows:

1. Pour a bit of resin into a container, add the entire pigment load corresponding to the amount of microcement you'll be working with, and mix until you achieve a uniform color liquid.
2. Gradually add the microcement powder and resin while simultaneously mixing the product with a low-speed mechanical mixer.
3. Mix for at least 4 minutes until you have a smooth, lump-free mixture.

1.4. Mortar Application.
a. Preparation Coats:
Apply two coats of Base XL using a metal trowel. On floors, first apply a flexible FIBER GRID PRO mesh before the first coat, then apply two coats of microcement. Allow the previous coat to dry for 4 hours between applications and perform a gentle sanding with an orbital sander and 40-grit sandpaper to remove imperfections.
b. Finishing Coats:
The application can be completed with a coat of Materia Matters finishing microcement. Between coats, allow the previous one to dry for 4 hours and gently sand with a random orbital sander using 40 grit sandpaper for Base XL and L, to eliminate imperfections.

Finishing coats can be applied using either the “wet on wet” or “wet on dry”

“Wet on wet”
Materia Matters microcement can be applied using the “wet on wet” technique, applying the next coat as soon as the previous one loses its “tack” (meaning when the freshly applied microcement no longer sticks to your fingers when touched). In this instance, the first coat of microcement applied with this technique should not be sanded. Any ridges or lumps should be removed with a support spatula, trimming any protruding material. Apply the next coat working on extruded polystyrene boards. Once the material is dry, perform a light sanding with a random orbital sander or the appropriate grit sandpaper (refer to the table) to remove imperfections.

“Wet on dry”
Before applying a new coat, allow the previous one to dry (approximately 4 hours) and perform a light sanding with a random orbital sander or the appropriate grit sandpaper (refer to the table) to remove imperfections.

Do not apply layers thicker than 3 mm for Materia Matters microcements.
A total system thickness of 2 to 4 mm is recommended.

1.5. Sealing.
Materia Matters microcement systems should be sealed once the curing process is completed, which occurs 24 to 48 hours after application. Sealing should not begin until the coating has a residual moisture content below 5%, to be verified using specific moisture measurement instruments. For sealing, the use of PRE COAT is recommended, followed by two layers of END COAT. It's essential to strictly follow the application instructions detailed in the technical datasheets for each product.

1.6. Cleaning Tools.
Tools should be washed with water immediately after use. Once hardened, the material can only be removed mechanically.

Limitations

The better the leveling and preparation of the surface to be covered, the better the performance and the lower the cost of material and application time. It is advisable to choose the appropriate method for each application. Low temperatures extend and high temperatures significantly reduce the product's lifespan and drying time. Do not apply the product at an ambient temperature lower than 10ºC or higher than 30ºC. Air humidity should be between 65% and 90%.

Special Precautions

This product contains cement.
- Avoid contact with eyes and skin, and do not inhale the dust.
- Wear rubber gloves and protective goggles.
- Do not apply the product at temperatures below 10ºC or above 30ºC.

It's essential to follow the label instructions. For more details, refer to the product's safety sheet.
Empty containers must be disposed of according to current legal regulations. Keep out of reach of children.

Packaging

Microcement: Available in 20 kg containers
Resin: Available in 5 and 25 L containers

Storage Conditions

The product should be stored in its original, sealed packaging, protected from weather conditions at temperatures between 10ºC and 30ºC, in a dry and well-ventilated place, away from heat sources and direct sunlight. If stored properly, it can be used for up to 24 months from its manufacturing date.

The product should not be used for purposes other than those specified without prior written instruction on its handling. It is always the user's responsibility to take appropriate measures to comply with legal requirements.
The Safety Data Sheets for the product are available for professionals.

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