

NATTURE

LIME-BASED MICRO-MORTAR

Product description

Two-component lime-based micro-mortar for continuous, thin-layer coatings on floors and walls for decorative finishes.

Uses

The system is presented as a high-performance continuous cladding system, suitable for use on floors, vertical surfaces, staircases, ceilings and even furniture. Its high functional and aesthetic versatility makes it an ideal solution for both residential projects and commercial spaces, as well as large-scale facilities such as sports centres, industrial buildings and high-traffic environments such as hotels and restaurants.

Description

Topciment divides the NATTURE range into three types of micro-mortars, classified according to their function within the system. These are organised into two main groups:

- Base or undercoat layer:
NATTURE XL or L, formulated to correct surface irregularities, increase structural strength and provide an ideal surface for the adhesion of topcoat layers.
- Final layer:
NATTURE XL, L or M, designed to provide the final finish in terms of both appearance and performance. The choice depends on the desired finish.

Classification of Topciment micro-mortars by particle size and recommended application

NATTURE	particle size (mm)	Recommended use
XL	0.3	Floor preparation and finishing
L	0.4	
M	0.2	Interior and exterior floor and wall finishes

Properties

- Continuous, seamless coating (always allow for expansion joints). Thickness: 1–3 mm.
- It stands out for its handcrafted finish, its workability and its extreme hardness.
- It is applied with a trowel in several layers, allowing for a wide variety of effects such as tadelakt or exposed concrete finishes. Excellent workability.
- Suitable for use on almost any type of surface, whether horizontal or vertical.
- High mechanical strength and excellent adhesion to all types of substrates: concrete, cement-based mortars, ceramic tiles, MDF, plaster and plasterboard.
- High resistance to abrasion, particularly at coarse grain sizes.
- Wide range of colours.

TECHNICAL INFORMATION

NATTURE	RATIO Component A/B	COVERAGE (2 layers) kg/m²	GRIT
L	20 kg / 6.6 L	1.4	40
XL	20 kg / 6 L	2	40
M	18 kg / 6.6 L	1	80

PROPERTIES OF COMPONENT A POWDER	SPECIFICATION	UNIT	METHOD
Features	Dust		
Composition	Cement, lime, additives and selected aggregates		
Apparent density (powder) M	1175±50	kg/m³	
Apparent density (powder) L	1175±50	kg/m³	
Apparent density (powder) XL	1175±50	kg/m³	
PROPERTIES OF COMPONENT B RESIN ACRICEM	SPECIFICATION	UNIT	METHOD
Features	Milky liquid		
Composition	Polyacrylate 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 contents, Part B	22-23	%	UNE-EN ISO 3251:2020
Class B	9-10		UNE-EN ISO 19396-1:2020

PROPERTIES OF MIXTURE A+B	TYPE		
	M	L	XL
Apparent density (wet) kg/m³	1450±50	1450±50	1450±50
Apparent density (hardened) kg/m³	1390 ±50	1430±50	1430±50
Pot life at 20°C (min)	60	60	60
Drying time between layers (hours)	3-4		
Number of layers	2	2	2
Maximum thickness for each type (mm)	<1	<1	<1
System thickness (mm)	1-3		
Type of trowel (material)	Flexible Steel	Metal	Metal

Certificates: Declared performance; CE marking

EN 13813:2002

XL

L

M

Flexural strength at 28 days (EN 13892-2) MPa	49.7	48.3	43.9
Compressive strength at 28 days (EN 13892-2) MPa	13.4	12.3	12.7
Adhesion resistance (EN 13892-8) MPa	>1.5	>1.5	>1.2
Fire performance (EN 13501-1)	Bfl-s1	Bfl-s1	Bfl-s1

Application

1.1. Preparation of the substrate.

The substrate must be clean and free of grease; the base must be stable and level.

1.2. Priming.

Before applying NATTURE XL micro-mortar, it is essential to prepare the substrate properly, taking into account its specific conditions. Depending on the type and condition of the substrate, specific technical solutions may be required, such as the incorporation of Builtex flat, flexible fibreglass mesh for structural reinforcement, the use of Primacem® PLUS primers on non-absorbent surfaces or Primacem® ABS on absorbent surfaces, as well as the application of barriers against rising damp or vapour using Primapox® Barrier.

In any case, it is recommended that the micro-mortar be applied whilst the primer is still tacky (sticky to the touch) to ensure optimum adhesion. If the primer cures completely and loses its tack (particularly in the case of epoxy-based primers), adhesion is reduced and flaking may occur. If the primer is already dry, the surface must be sanded before applying the micro-mortar to restore adhesion.

In all cases, you must strictly follow the technical advice provided by our specialists and consult the relevant technical data sheets for each product.

1.3. Kneading.

Natture is mixed with Acricem resin and colourants according to the selected colour. To ensure the coating's properties, it is essential to maintain the correct ratio of micro-mortar to resin.

The mortar should be prepared as follows:

1. Pour a small amount of Acricem resin into a container, add the full amount of pigment corresponding to the quantity of micro-mortar you intend to use, and mix until you obtain a liquid of uniform colour.
2. Gradually add the micro-mortar powder and resin whilst mixing the product with a low-speed mechanical mixer.
3. Mix for at least 4 minutes until the mixture is smooth and free from lumps.

1.4. Application of the mortar.

a. Preparation layers:

Apply two layers of Natture XL using a metal trowel. On floors, lay the Builtex flexible fibre mesh before applying the micro-mortar, then apply two layers of the micro-mortar. Allow 4 hours to dry between layers, then lightly sand using a random-orbit sander and 40-grit sandpaper to remove any imperfections.

b. Layers of finish on walls and floors, both indoors and outdoors:

- If a **rustic finish** is required, apply a third layer of **Natture XL or L**. Lightly sand the surface using a random-orbit sander or 40-grit sandpaper to remove any imperfections.
- If a **more natural and elegant finish** is required, apply two layers of **Natture M**. Allow each layer to dry for 4 hours, then lightly sand the surface using a random-orbit sander or 80-grit sandpaper to remove any imperfections.

The finishing layers can be applied using either the "wet-on-wet" or "wet-on-dry" techniques.

"Wet-on-wet"

Natture can be applied using the “wet-on-wet” technique, applying the next layer as soon as the previous one loses its tack, i.e. when the freshly applied micro-mortar no longer sticks to your fingers when touched. In this case, the first layer of Natture applied using this technique should not be sanded. If any burrs or lumps remain, these should be removed using the support spatula, trimming away any protruding material. Apply the next layer working on extruded polystyrene boards. Once the material is dry, sand gently using a random orbital sander or sandpaper of the appropriate grit (see table) to remove any imperfections.

“Wet on dry”

Before applying a new layer, allow the previous layer to dry (for around 4 hours) and sand it lightly using a random-orbit sander or sandpaper of the appropriate grit (see table) to remove any imperfections.

Do not apply layers thicker than 1 mm when using Natture micro-mortars. A total system thickness of 1 to 3 mm is recommended.

1.5. Sealing.

Topciment® micro-mortar systems must be sealed once the curing process is complete, which occurs between 24 and 48 hours after application. The sealing process must not begin until the coating has a residual moisture content of less than 5%, a figure that must be verified using specific moisture-measuring instruments. For sealing, we recommend applying two layers of our Presealer primer, followed by two layers of a varnish from the Topsealer® range. In particular, we suggest using Topsealer WT Dragon, as it is the most advanced and comprehensive product in the range. It is essential to strictly follow the application instructions detailed in the technical data sheets for each product.

1.6. Cleaning the tools.

Tools should be washed with water immediately after use. Once set, the material can only be removed by mechanical means.

Limitations

The better the levelling and preparation of the surface to be coated, the better the performance and the lower the material costs and application time. It is advisable to choose the appropriate method for each application.

Low temperatures significantly extend the product's pot life and drying time, whilst high temperatures significantly reduce them. Do not apply the product at ambient temperatures below 10°C or above 30°C. The relative humidity must 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 safety goggles.
- Do not apply the product at ambient temperatures below 10°C or above 30°C.

It is essential to follow the instructions on the label. For further information, please refer to the product safety data sheet.

Empty containers must be disposed of in accordance with current legislation.

Keep out of reach of children.

Introduction

Available in 20 kg packs: Natture L and XL

Available in 18 kg packs: Natture M

Available in 5-litre and 25-litre containers: Acricem

Storage conditions

The product must be stored in its original, unopened packaging, protected from the elements, at temperatures between 10°C and 30°C, in a dry, well-ventilated place, away from sources of heat and direct sunlight. When stored correctly, the product has a shelf life of 24 months from the date of manufacture.



The product must not be used for purposes other than those specified, without first obtain written instructions on how to use it. It is always the responsibility the user must take the necessary steps to comply with the requirements as set out in the relevant legislation. The forms are available to the professional Product safety information.

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