

BIOMARC INTONACO DEUMIDIFICANTE

LIME BASED ECOLOGICAL WATER-RESISTANT PLASTER

code 9710200

DESCRIPTION

BIOMARC INTONACO DEUMIDIFICANTE is specifically used for the BIOMARC DEUMIDIFICANTE dehumidifying system for the restoration of walls affected by moisture and the formation of saltpetre.

It creates a layer with high water vapour permeability, along with excellent water repellency.

BIOMARC INTONACO DEUMIDIFICANTE [classified R/CS II (EN 998-1)] is made of pure and natural raw materials like natural hydraulic lime (NHL), pozzolanic ash and Roman lapilli, non-ground alluvial aggregate void of silt and soluble salts, and are resistant to salts, weathering, freezing and are non brittle.

BIOMARC INTONACO DEUMIDIFICANTE is indicated for:

- skirting on buildings against rising damp and efflorescence;

- interior plasters for dehumidifying rooms subject to strong condensation or moisture (below ground structures, basements) provided they are properly ventilated;

- facade plasters that are resistant to wind gusts and freeze/thaw cycles;

- complementary plasters for wall-cutting interventions.

The complete bio-compatibility and the recycling as aggregate make BIOMARC INTONACO DEUMIDIFICANTE ideal for bio-construction jobs and for the restoration of historic/artistic buildings.

INSTRUCTIONS FOR USE

BIOMARC INTONACO DEUMIDIFICANTE can be used on all types of internal and external wall surfaces (brick, tuff, stone, rock, building block), provided it has not been plastered.

- It cannot be used on water-proofing recess formers, gypsum or bituminous substrates, over old synthetic paints or on substrates that are non-absorbent, incohesive or friable or where there are infiltrations of water or standing water.

- The BIOMARC DEUMIDIFICANTE dehumidifying system can be covered with lime or silicate based siloxane paints.

TECHNICAL SPECIFICATIONS

- Binder: Natural hydraulic lime NHL 3.5 (EN 459-1), natural pozzolanic ash and Roman lapilli (EN 197-1), bio-sands for mortars (EN 13139).

- EN 1015-6 bulk density of fresh mortar: 1.50 kg/L approx.

- Appearance: pinkish beige powder

- Air content: approx. 45%

- Minimum thickness: 2 cm

- Max. aggregate particle size: 3 mm

- * EN 998-1 classification: R

- * EN 13501-1 reaction to fire: Class A1

- * EN 1015-11 compressive strength: CS II

- * EN 1015-18 capillary water absorption: 2.6 Kg/m² after 24 hours

- * EN 1015-18 water penetration: < 5 mm

- * EN 1015-12 adhesion: 0.3 N/mm² (FP) B

- * EN 1015-19 water vapour permeability coefficient: $\mu = 6$

- * EN 1745 thermal conductivity (λ_{10} , dry): 0.44 W/mK

(tabulated value)

Drying very much depends on the temperature and humidity levels of the air and the substrate; in any case, wait at least 10 days before applying BIOMARC FINITURA DEUMIDIFICANTE finishing plaster.

- Can be covered with lime or silicate based siloxane paints.

PREPARING THE SURFACE

Walls:

- The wall must be completely without plaster.

- Remove the existing layer of plaster about a half metre past the area affected by the moisture.

- Remove any loose areas and/or salt deposits with a wire brush and rinse with water, preferably using a pressure washer.

- Wet the wall.

- Apply BIOMARC RINZAFFO DEUMIDIFICANTE when the substrate is damp, but dry on the surface.

- Finish the surface by applying BIOMARC INTONACO DEUMIDIFICANTE rendering plaster and BIOMARC FINITURA DEUMIDIFICANTE finishing plaster.

APPLICATION INSTRUCTIONS

- Conditions of the environment and the substrate:

Air temperature: Min. +8 °C / Max. +35 °C

Relative humidity of the air: <75%

Temperature of the substrate: Min. +5 °C / Max. +35 °C

During periods of heat and high winds, the plaster should be protected from rapid evaporation by dampening it with water during the first few days.

- When prepared, the mixture should be completely used before a new batch is made.

Application method:

- At least 3 days after applying BIOMARC RINZAFFO DEUMIDIFICANTE, wet the surface well. Wait until the water on the surface has evaporated but the substrate is still damp.

- Mix BIOMARC INTONACO DEUMIDIFICANTE in a cement mixer with 16% water (4 litres water for a 25 kg bag). Mix until a homogeneous mortar with the desired consistency is obtained (max. 8 minutes).

- Manually apply BIOMARC INTONACO DEUMIDIFICANTE using a trowel, and being careful not to exceed a thickness of 2 cm per coat. For high thicknesses, apply the plaster to the hardened surface in numerous coats and use a plaster reinforcing mesh.

- Level with an aluminium staff after a few minutes.

- Let age for at least 10 days before applying BIOMARC FINITURA DEUMIDIFICANTE plaster.

- Product consumption: 12 Kg/m² per cm of thickness. Recommended thickness: 2 cm.

TINTING

The product is available in pinkish beige.

STORAGE

Maximum storage temperature: +30 °C

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Minimum storage temperature: +5 °C
Keep in a dry place away from sources of moisture.
Stability in the original closed containers stored at suitable temperatures: 1 year.

SAFETY RULES

Does not apply to directive 2004/42/EC.

Irritant to the eyes, respiratory system and skin. Keep out of the reach of children. Do not breathe dust. Avoid contact with the eyes and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and protective clothing. If swallowed, seek medical advice immediately and show this container or label. Do not empty into drains.
The product must be transported, used and stored in accordance with the standards in force regarding hygiene and safety; after use, do not litter, let residues dry out completely and treat them as special waste. Consult the safety data sheet for additional information.

SPECIFICATION ITEM

Used on prepared surfaces for the restoration of damp areas as part of a dehumidifying system composed of BIOMARC RINZAFFO DEUMIDIFICANTE [classified GP/CS II (EN 998-1)], BIOMARC INTONACO DEUMIDIFICANTE [classified R/CS II (EN 998-1)], BIOMARC FINITURA DEUMIDIFICANTE [classified CS I (EN 998-1)] made of pure natural hydraulic lime, highly pure natural pozzolanic ash and Roman lapilli, non-ground alluvial aggregate void of silt and soluble salts.

Average product consumption per mm of applied thickness:
BIOMARC RINZAFFO DEUMIDIFICANTE 1.5 Kg/m²;
BIOMARC INTONACO DEUMIDIFICANTE 1.2 Kg/m²;
BIOMARC FINITURA DEUMIDIFICANTE 1.2 Kg/m².

Supplying and application of the material € per m².

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