

Osmosana

Mono-component, osmotic, rigid, ecological waterproofing



Osmotic brushable hydraulic lime-based compound, for the construction of vertical barriers, waterproofing, in porous structure masonry (brick, natural stone, etc.) in ecological building interventions, new buildings and in the restoration of vintage buildings and monuments.

CUSTOMS CODE: 3824 5090

COMPONENTS: Single-component

APPEARANCE: Powder

AVAILABLE COLORS: Light hazel

PACKAGING AND DIMENSIONS: Bag 25 kg - Pallet: 50 x (Bag 25 kg)

OBTAINED CERTIFICATIONS AND REGULATIONS



FEATURES AND BENEFITS

Osmosana is based on lime and hydraulic binders, botticino, kaolin, silica aggregates, tartaric acid, different silicates and carbonates. It has no traces of resins, solvents and radioemissive aggregates. The hydraulic reaction of Osmosana produced by the natural chemical combination, of water lime and kaolin (metakaolin or industrial cocchiopesto (lime mortar with crushed pottery)), also called "superpozzolanic" reactivity, is comparable to the hydration reaction of cement materials, but in ecological building key.

FIELDS OF APPLICATION

Waterproofing treatments of brick or mixed external walls, provided they are sufficiently porous and absorbent and free from any waterproofing and / or water-repellent surface treatment, whether chemical (siloxanes, epoxies, polyurethanes, etc.) or natural (wax-up), before backfilling. Anti-capillary rising damp treatments in the construction of subbase screeds.

ALLOWED SUPPORTS

Concrete - Bricks - Mixed walls (bricks and stones) - Stone walls

PREPARATION OF SUPPORTS

Application surfaces should be clean, free of soiling, crumbling and non-adhering parts, dust, etc., water repellent treatments in general, etc. conveniently saturated with water until they reach the condition "saturated with dry surface".



MODE OF USE

Pour about 2/3 of the mixing water into the mixer, add Osmosana and the remaining water; continue to mix until a homogeneous lump-free mixture is obtained. After mixing is completed wait a few minutes before applying. Apply on site with a brush, spatula or roller, depending on the desired result. The mixing water indicatively necessary is 24-36% by weight (6-7 litres/bag for applications with the spatula, 8-9 litres/bag for applications by brush or roller).

APPLICATION METHODS

Brush - Spatula - Low pressure airless nebulizer

TOOL CLEANING

Water

KEY FEATURES

- ☒ Max. recommended thickness: 5 mm
- ☒ Min. recommended thickness: 3 mm
- ☒ Nonflammable
- ☒ Shelf-life: 12 months
- ☒ UV-resistant
- ☒ Maximum diameter of aggregate: 0.5 mm
- ☒ Mix with water: 24-36 %
- ☒ Pot-life: 65 min
- ☒ Temperature of use: +6 / +30 °C

TECHNICAL SPECIFICATIONS

UNI EN 1015-11
Compressive strength > **3 N/mm²**

EN 13142
Static elastic modulus **7000 N/mm²**

al vapore acqueo UNI EN 1015-19
Coefficient of permeability **20.2 µ**

UNI EN 1015-6
Density **1.500 kg/m³**

UNI EN 1015-11
Flexural strength > **1.5 N/mm²**

UNI EN 1015-18
Capillary absorption **0.72 kg•h^{0.5}/m²**

UNI EN 1015-12
Bonding force **0.5 N/mm²**

CONSUMPTION

Approximately 1.4 kg/m² of Osmosana for each millimetre of thickness to be made.

STORAGE AND CONSERVATION

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Protect from humidity.



PHOTO GALLERY



ADDITIONAL CONTENT



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WARNINGS AND PRECAUTIONS

Protect fresh surfaces from direct exposure to sunlight, from the rain and wind, cure the prolonged moist hardening.

Do not use for waterproofing works with negative hydraulic thrust.

Do not apply on little or non-porous substrates or previously coated with water-repellent treatments in general, if not after appropriate roughening by bush hammers, sanders and equipment suitable for preparatory treatments of substrates, or after appropriate treatment with suitable polymeric primers. The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge.

Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage.

Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

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