



OSM.0089

**OSMOSANA**

Mono-component, osmotic, rigid, ecological waterproofing

### Dosage

3 - 5 kg /m<sup>2</sup>  
(Recommended: 4 kg /m<sup>2</sup>)

### Packaging

- Bag 25 kg  
- Pallet: 50 x (Bag 25 kg)

### Application

- Brush  
- Spatula  
- Low pressure airless nebulize



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Family  
**Osmocem**

Product Lines  
• **Opus**  
• **Sanageb**

Components  
**Single-component**

Type  
**Hydraulic lime based osmotic compounds**

Functional Categories  
• **Osmotic waterproofing**

Appearance  
**Powder**

## Certifications and legislations



**EN 998-1**

Specification for Mortar for Masonry - General purpose rendering/plastering mortar (GP)



**Sanageb - Prodotti naturali per la Bioedilizia**

Product belonging to Sanageb, Azichem's product line dedicated to green-building, sustainability in constructions and bio-architecture since 1994.

## General description

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.

## General features

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 cocciopesto (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.

## Available colours

• Light hazel


## Basic features

↔ Max. recommended thickness:  
5 mm


→↔ Min. recommended thickness:  
3 mm


 Nonflammable


 Shelf-life:  
12 months

 Temperature of use:  
+6 / +30 °C

 Maximum diameter of aggregate:  
0.5 mm

 Mix with water:  
24-36 %

 Pot-life:  
65 min

 Solvent-free

 UV-resistant

## Technical specifications

Bonding force (UNI EN 1015-12): 1.4 N/mm<sup>2</sup>

Capillary absorption (UNI EN 1015-18): 0.72 kg•h<sup>0.5</sup>/m<sup>2</sup>

Coefficient of permeability (UNI EN 1015-19): 20.2 μ

Compressive strength (UNI EN 1015-11): > 20 N/mm<sup>2</sup>

Density (UNI EN 1015-6): 1.580 kg/m<sup>3</sup>

Flexural strength (UNI EN 1015-11): > 2.5 N/mm<sup>2</sup>

Static elastic modulus (EN 13142): 9000 N/mm<sup>2</sup>

## Tools **cleansing**

- Water

## Applicable on

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

## Substrate **preparation**

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".

## Instructions for 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).

## Storage and preservation

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.



## Warnings, Precautions and **Ecology**

Technical and performance data outlined in this document are the result of laboratory testing conducted in a conditioned environment, as such they can result as considerably changed from operating and application conditions. The need follows to carry out preliminary tests in actual use conditions.

The user is required to check the product's most recent Material Safety Data Sheet, reporting physical-chemical and toxicological data, risk phrases and other useful information on how to safely transport, use and dispose of the product and its packaging. It is also reminded that the product and its packaging must not be dispersed in the environment for any reason.

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.



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