



OSM.0086

OSMOCEM N

Mono-component, osmotic, rigid waterproofing cement

Customs Code

3816 0000

Dosage

2 - 5 kg /m²
(Recommended: 4 kg /m²)

Packaging

- Bag 25 kg

Application

- Finishing trowel
- Plastering machine
- Brush
- Spatula
- Sprayer

Family
Osmocem

Product Lines

- Aqua
- Building

Components
Single-component

Type
Osmotic one-component cement compounds

Functional Categories

- **Osmotic waterproofing**

Appearance
Powder

Certifications and legislations



EN 998-1

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



Direttiva 89/93/CE

Suitability to contact with drinking water (Quality of water intended for human consumption)

General description

Cement compound for the preparation, with the sole addition of water, of a waterproofing osmotic coating that can create horizontal and vertical barriers, also suitable in conditions of negative hydrostatic thrust vis-à-vis water permeation in the buildings. Typical uses include waterproofing underground rooms, elevator compartments, garages, basements, tanks, etc.

General features

The action of the active components and of the adhesion promoters of OSMOCEM N, saturated by the reaction the support capillaries, forming a complex system of gel and stable crystals, which results in the best sealing, effective even in conditions of negative hydrostatic thrust, without hindering the breathability of the walls.

OSMOCEM N is compatible for food substances: is certified as suitable for the containment of foodstuffs and drinking water (Certificate no. 02/2010 Laboratorio Analysis Service di Settimo di Pescantina - VR).

Fields of application

Waterproofing rigid structures and masonry walls underground, buried or in any case subject to water permeation: lift wells, basements, tanks, pipes, tunnels, garages, bridges, reservoirs, areas containing food, etc. in conditions of positive and negative hydrostatic thrust 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).


Available colours


- White
- Gray


Basic features

↔ Max. recommended thickness:
5 mm


↔ Min. recommended thickness:
1.5 mm

 Pot-life:
60 min

 Solvent-free

 Temperature of use:
+5 / +35 °C

 Maximum diameter of aggregate:
0.7 mm

 Mix with water:
19-22 %

 Shelf-life:
12 months

 Suitable for contact with drinking water

 To be applied in two coats

Technical specifications

Bonding force (UNI EN 1015-12): 2.6 N/mm²



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Capillary absorption (UNI EN 1015-18): $0.08 \text{ kg} \cdot \text{h}^{0.5} / \text{m}^2$

Compressive strength (UNI EN 1015-11): $> 20 \text{ N/mm}^2$

Density (UNI EN 1015-6): 1930 kg/m^3

Setting time (Vicat - end of setting): 3 h

Tools cleansing

- Water

Applicable on

- Concrete
- Prefabricated concrete
- Fiber-cement
- Bricks
- Mixed walls (bricks and stones)
- Stone walls
- Rock 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 OSMOCEN N and the remaining water; continue to mix until a homogeneous lump-free mixture is obtained. The mixing water should be about 19-20% (for interventions in the form of a spatula) or 21-22% (for interventions using a brush with long bristles). After mixing is completed wait a few minutes before applying. If applied by brush, roll out two or more crossed coats.

Although it is not a specific product for finishing thick coats, it can still be used for these purposes. In these cases, it is appropriate to use a fibreglass mesh ARMAGLASS 160.

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.



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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.

It is always essential to carry out preliminary tests to verify the appropriateness of the product, depending on specific requirements.

Do not apply in case of direct exposure to sunlight and cure the protection and moist hardening.

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.

OSMOCEM N is produced/distributed by



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