



Family
Osmocem

Type
Osmotic one-component cement

Product Lines
• Aqua
• Building

Functional Categories
• **Osmotic waterproofing**

Components
Single-component

Appearance
Powder

OSM.0086

OSMOCEM N

Mono-component, osmotic, rigid waterproofing cement

Customs Code

3824 5090

Packaging

- Bag 25 kg

Application

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

Certifications and legislations



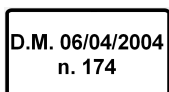
EN 998-1

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)



D.M. 06/04/2004, n. 174

Regulation concerning materials and objects that can be used in fixed systems for the collection, treatment, adduction and distribution 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).

OSMOCEM N waterproof test:

- Resistance to positive hydraulic thrust, UNI EN 12390/8: water penetration depth with 5 bar pressure = 1-2 mm (*)
- Impermeability to negative hydraulic thrust, UNI EN 12390/8 modified (concrete support a / c ratio 0.7): no passage of water with a pressure of 1.5 bar

(*) concrete with penetration depth ≤ 20 mm are considered waterproof

Dosage

Approximately 1.7 kg/m² of OSMOCEM N for each millimetre of thickness to be made.

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).












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Basic features

 Max. recommended thickness: 5 mm	 Maximum diameter of aggregate: < 0.4 mm
 Min. recommended thickness: 1 mm	 Mix with water: 19-22 %
 Pot-life: 60 min	 Shelf-life: 12 months
 Suitable for contact with drinking water	 Temperature of use: +5 / +35 °C
 To be applied in two coats	 Available colours White / Gray

Technical specifications

Bonding force (UNI EN 1015-12): 1.8 N/mm²

Capillary absorption (UNI EN 1015-18): 0.08 kg•h^{0.5}/m²

Compressive strength after 07 days UNI EN 1015-11: > 30 N/mm²

Compressive strength after 28 days UNI EN 1015-11: > 40 N/mm²

Compressive strength at 02 days UNI EN 1015-11: > 20 N/mm²

Density (UNI EN 1015-6): 1930 kg/m³

Flexural strength after 28 days UNI EN 196/1: > 8 N/mm²

Resistance to positive hydraulic thrust: water penetration

depth with 5 bar pressure UNI EN 12390/8: 1-2 mm

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

Waterproof to negative hydraulic thrust with a pressure of 1.5 bar

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 OSMOCEM 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

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.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: www.azichem.com. The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: www.azichem.com.

It is forbidden to dispose of the product and/or packaging in the environment.

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



Via Giovanni Gentile, 16/A - 46044 Goito (MN), Italy

info@azichem.com Tel. +39 0376.604185 /604365 Fax +39 0376 604398



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