



OSM.0082

OSMOCEM D

Osmotic deformable two-component waterproofing cement

Customs Code

3816 0000

Dosage

2 - 5 kg /m²
(Recommended: 4 kg /m²)

Packaging

- Bag 25 kg [A]
- Plastic can 5.2 kg [B]
- Kit: 1 Bag 25 kg [A] + 1 Plastic can 5.2 kg [B]
- Pallet: 50 x (Bag 25 kg [A])
- Pallet: 50 x (Plastic can 5.2 kg [B])

Application

- Finishing trowel
- Plastering machine
- Brush
- Paint roller
- Spatula
- Spraye



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Family
Osmocem

Product Lines

- Aqua
- Building
- Infratech

Components
Two-components

Type
Osmotic two-components cement compounds

Functional Categories

- **Osmotic waterproofing**
- **Structural maintenance of dams, reservoirs, ducts and water ducts**
- **Structural maintenance of tunnels**
- **Horizontal cement waterproofing of terraces and balconies**

Appearance
Powder + Liquid

Certifications and legislations



EN 998-1

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



EN 14891:2012 (System 3)

Liquid waterproofing products to be applied beneath ceramic tiles, bonded with adhesives



EN 1504-3

Products and systems for the protection and repair of concrete structures - Structural and non-structural repair



Direttiva 89/93/CE

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

General description

Two-component osmotic, waterproofing cement compound, added with specific flexibilising polymers, moderately deformable, also resistant to negative pressure, for waterproofing concrete structures, roofs, tanks, pools, cracked plaster, elevator compartments, balconies, terraces, etc.; repair and protective coatings of hydraulic works and marine structures or in marine atmosphere.

General features

OSMOCEM D is extremely easy to apply, error-proof. It induces adherence to supports by mechanical adhesion and osmotic diffusion. It is also effective in terms of negative hydrostatic thrust (negative pressure).

OSMOCEM D is compatible with food substances: it has been certified as suitable for the containment of foodstuffs and drinking water (Certificate no. 03/2010 Laboratorio Analysis Service di Settimo di Pescantina - VR).

Fields of application

Waterproofing treatments of underground structures and masonry, pools, tanks, pipes, tunnels, garages, bridges, reservoirs, basements, areas containing food, etc., 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). Suitable in both positive or negative hydrostatic thrust conditions. It can also be used for waterproofing terraces and balconies.

Available colours

- White
- Gray

Basic features



Highlighted product



Density:
1.9 kg/dm³



Max. recommended thickness:
5 mm



Maximum diameter of aggregate:
0.7 mm



Min. recommended thickness:
1.5 mm



Nonflammable



Pot-life:
50-70 min



Shelf-life:
12 months



Solvent-free



Suitable for contact with drinking water



Temperature of use:
+5 / +35 °C



To be applied in two coats



UV-resistant

Technical specifications

Bonding force (UNI EN 1015-12): $\geq 1.5 \text{ N/mm}^2$

Capillary absorption (UNI EN 1062-3): $0.16 \text{ kg} \cdot \text{h}^{0.5}/\text{m}^2$

Compressive strength (EN 12190): $> 30 \text{ N/mm}^2$

Darcy impermeability: 10^{-10} cm/s

Flexural strength (EN 12190): $\geq 6 \text{ N/mm}^2$

Mixing ratio of the components A:B: 4.8:1 _

Static elastic modulus (EN 13142): 15 GPa

Tools cleansing

- Water

Applicable on

- Plasters
- Concrete
- Prefabricated concrete
- Fiber-cement
- Bricks
- Mixed walls (bricks and stones)
- Stone walls
- Floor screed
- 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

Mix the powder component (component A) with the hydrating solution (component B) with a drill at a low number of revolutions, pouring the powder progressively in the liquid, continue mixing until a homogeneous lump-free mixture is obtained. Moderate variations in the amount of component B in the mix are allowed, to obtain a more or less fluid compound depending on the intended use (for example, if applied with a brush more component B is required compared to as usage as easy to spread plaster). After mixing is completed wait a few minutes and stir again before proceeding with the application. Mix at a ratio of 25 kg of component A with 5.2 litres of component B.

To further to improve the performance of the coating (for example in the case of waterproofing of terraces and balconies), insert the alkaline-resistant fibreglass reinforcing mesh ARMAGLASS 160 between layers, for a general consumption of about 5 kg/m².



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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.

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 D 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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