



OSM.0088

OSMOCEM RD

Osmotic deformable two-component thick waterproofing cement

Customs Code

3824 5090

Packaging

- Bag 25 kg [A]
- Plastic can 4.5 kg [B]
- Kit: 1 Bag 25 kg [A] + 1 Plastic can 4.5 kg [B]

Application

- Brick trowel
- Finishing trowel
- Spatula
- Plastering machine



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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**
- **Renewal of wet masonry with waterproofing plasters**

Appearance
Powder + Liquid

Certifications and legislations



EN 998-1

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

General description

Osmotic fibre reinforced two-component cement mortar, based on hydraulic binders, modifying resins and flexibilisers, superpozzolanic reactive fillers, for the preparation of adhesive mixtures, easy to spread, which after hardening, provide an effective waterproofing protection, both in direct push and in negative pressure, with high capacity of deformation.

General features

OSMOCEM RD synergistically brings together properties and benefits derived from the peculiar mix of components, which include superpozzolanic reactive fillers, for a net improvement of the chemical inertness and adherence, the reduction of porosity and permeability, with consequent reduction of carbonation. Suitable polymers present in the mixture also increase its deformability and stability, reducing scraps, detachments and cracks.

Dosage

Approximately 18 kg/m² of OSMOCEM RD for every centimetre of thickness to be implemented (approximately 1800 kg per cubic metre).

Fields of application

Coatings, reconstructions and millimetric shields, finishing coats etc., in interventions to restore conservative, waterproofing works in reinforced concrete, wall coverings, extended exposed surfaces 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). Particularly indicated for interventions of dehumidification and anti-condensation rehabilitation of underground spaces, in combination with the dehumidifying cycle with CALEOSANA.

Basic features



Highlighted product



Max. recommended thickness:
15 mm



Maximum diameter of aggregate:
1 mm



Min. recommended thickness:
5 mm



Nonflammable



Pot-life:
50 - 70 min



Shelf-life:
12 min



Solvent-free



Temperature of use:
+5 / +35 °C



UV-resistant



Available colours
Gray

Technical specifications

Bonding force (UNI EN 1015-12): 2.4 N/mm²

Capillary absorption (UNI EN 1015-18): 0.09 kg•h^{0.5}/m²

Compressive strength (UNI EN 1015-11): > 40 N/mm²

Darcy impermeability: 10⁻¹⁰ cm/s

Density (UNI EN 1015-6): 2.030 kg/m³

Flexural strength (UNI EN 1015-11): > 8 N/mm²

Static elastic modulus (EN 13142): 19000 N/mm²

Tools cleansing

- Water

Applicable on

- Concrete
- 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

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. After mixing is completed wait a few minutes and stir again before proceeding with application.

To further improve the performance of the coating, insert a steel reinforcement mesh (wire 2 mm mesh and 5x5 cm) between layers.

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 RD is produced/distributed by



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