

Osmocem RD

Osmotic deformable two-component thick waterproofing cement



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.

CUSTOMS CODE: 3824 5090

COMPONENTS: Two-components

APPEARANCE: Powder + Liquid

AVAILABLE COLORS: Gray

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

OBTAINED CERTIFICATIONS AND REGULATIONS



FEATURES AND BENEFITS

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.

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.

ALLOWED SUPPORTS

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

PREPARATION OF SUPPORTS

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". It is always advisable to prime the application support with approximately 100-150 g / m² of COMPONENT B adhesive latex; in this way, at least three extraordinarily effective operations are carried out with a simple and fast priming: a) expulsion of the air from the surface porosity _ stopper (with a drastic reduction of the well-known blistering that occurs on elastic products with low thickness); b) decrease in the absorption of the support (to guarantee a suitable curing of the waterproof skim coat); c) increased adhesion thanks to the deep penetration of the polymeric component.

MODE OF 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.

APPLICATION METHODS

Brick trowel - Finishing trowel - Spatula - Plastering machine

TOOL CLEANING

Water

KEY 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 months |  Temperature of use: +5 / +35 °C |
|  UV-resistant | |

TECHNICAL SPECIFICATIONS

UNI EN 1015-11
Compressive strength > **40 N/mm²**

EN 13142
Static elastic modulus **19000 N/mm²**

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

UNI EN 1015-12
Bonding force **2.4 N/mm²**

Sd EN ISO 7783-1
Permeability to water vapor **CLASS I**

UNI EN 1015-11
Flexural strength > **8 N/mm²**

UNI EN 1015-6
Density **1900 kg/m³**

UNI EN 12390-8
Water penetration under pressure (5 bar for 72 hours) ≤ **14 mm**

Darcy impermeability **10⁻¹⁰ cm/s**



CONSUMPTION

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

STORAGE AND CONSERVATION

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.

PHOTO GALLERY



ADDITIONAL CONTENT



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WARNINGS AND PRECAUTIONS

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. 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.

