

# Osmocem MR

Mono-component, osmotic, hard, thick waterproofing cement



Mono-component, osmotic cement mortar based on hydraulic binders, modifying resins and superpozzolanic reactive fillers selected aggregates, for the preparation of adhesive mixtures that after curing, create a protective, waterproof, high-efficiency coating. Osmocem MR can be used for coatings, reconstructions and millimetric protections, finishing coats etc., in interventions of conservative restoration, waterproofing reinforced concrete structures, wall coverings, hydraulic works, extended exposed surfaces etc.

**CUSTOMS CODE:** 3824 5090

**COMPONENTS:** Single-component

**APPEARANCE:** Powder

**AVAILABLE COLORS:** Gray

**PACKAGING AND DIMENSIONS:** Bag 25 kg - Pallet: 50 x (Bag 25 kg)

## OBTAINED CERTIFICATIONS AND REGULATIONS



## 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).

## 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".

## MODE OF USE

Pour about 2/3 of the mixing water into the mixer, add Osmocem MR and the remaining water; continue to mix until a homogeneous lump-free mixture is obtained. The mixing water should be about 14-16% of the weight of the bag. After mixing is completed wait a few minutes before applying. To further improve the performance of the coating, insert a steel reinforcement mesh (wire 2 mm mesh and 5x5 cm) between layers.

## APPLICATION METHODS

Finishing trowel - Plastering machine - Spatula - Brick trowel

## TOOL CLEANING


Water


## KEY FEATURES

↔ Max. recommended thickness: 20 mm


→← Min. recommended thickness: 5 mm


 Nonflammable


 Shelf-life: 12 months

 UV-resistant

 Maximum diameter of aggregate: 2.0 mm

 Mix with water: 14-16 %

 Pot-life: 50 - 60 min

 Temperature of use: +5 / +35 °C

## TECHNICAL SPECIFICATIONS

UNI EN 1015-11

Compressive strength > **40 N/mm<sup>2</sup>**

UNI EN 12390-8

Water penetration under pressure (5 bar for 72 hours) **≤15 mm**

UNI EN 1015-12

Bonding force **2 N/mm<sup>2</sup>**

EN 13412

Static elastic modulus **28000 N/mm<sup>2</sup>**

Water/binder ratio < **0.45**

UNI EN 1015-18

Capillary absorption **0.14 kg•h<sup>0.5</sup>/m<sup>2</sup>**

UNI EN 1015-11

Flexural strength > **8 N/mm<sup>2</sup>**

Darcy impermeability **10<sup>-10</sup> cm/s**

pH > **12**

Sd EN ISO 7783-1

Permeability to water vapor **CLASS I**

UNI EN 1015-6

Density **2050 kg/m<sup>3</sup>**

## CONSUMPTION

Approximately 13,50 kg/m<sup>2</sup> of Osmocem MR for every centimetre of thickness to be implemented (approximately 1350 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.



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## 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](http://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](http://www.azichem.com).

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

