



Family  
**Osmocem**

Type  
**Osmotic one-component cement**

Product Lines  
• Aqua  
• Building

Functional Categories  
• Osmotic waterproofing  
• Horizontal cement waterproofing of terraces and balconies

Components  
**Single-component**

Appearance  
**Powder**

OSM.0283

## OSMOCEM FLEX MONO

Cementitious, flexible, single-component waterproofing product

### Customs Code

3824 5090

### Packaging

- Bag 25 kg
- Pallet: 50 x (Bag 25 kg)

### Application

- Brush
- Paint roller
- Spatula

## General description

Osmotic cementitious waterproofing from a single-component, fibre-reinforced modified polymer, being super adhesive and deformable, with a plastic-elastic conduct. Ideal for waterproofing beneath tiles and for protecting concrete. It is easily applied by trowel, brush or roller, both on horizontal and vertical surfaces. Offers a 30% higher yield than two-component systems.

## General features

One-component product, modified polymer, flexible and deformable, which requires only the addition of water. The application is easy and versatile, thanks to the variable consistency obtained by adjusting the amount of water added (within the allowed range and indicated in the "Instructions for use" paragraph), without dripping in vertical applications. 30% higher yield than two-component systems.






## Dosage

Approximately 1.4 kg / m<sup>2</sup> of OSMOCEM FLEX MONO for each millimeter of thickness to be created.

## Fields of application

Waterproofing of balconies, terraces, bathrooms, showers, swimming pools, before laying ceramic coverings. Waterproofing of concrete structures, plasters and cementitious screeds, as long as they are sufficiently porous and absorbent and without waterproofing and / or water-repellent surface treatments, both chemical (siloxane, epoxy, polyurethane, etc.) and natural (waxing).

## Basic features

- |  |   |
|--|---|
|  Maximum diameter of aggregate:<br>< 0.4 mm |  Pot-life:<br>40 min                |
|  Shelf-life:<br>12 months                   |  Temperature of use:<br>+5 / +35 °C |
|  Available colours<br>Gray                  |   |

## Technical specifications

Crack bridging statico (EN 14891-A.8.2): > 0.75 mm

Bonding force (UNI EN 1015-12): 1.00 N/mm<sup>2</sup>

Capillary absorption (UNI EN 13057): 0.06 kg•h<sup>0.5</sup>/m<sup>2</sup>

Compressive strength after 07 days (EN 1015-11): > 1 N/mm<sup>2</sup>

Compressive strength after 28 days (EN 1015-11): > 1.5 N/mm<sup>2</sup>

Density (UNI EN 1015-6): 1700 kg/m<sup>3</sup>

Flexural strength after 07 days (EN 1015-11): > 1.2 N/mm<sup>2</sup>

Flexural strength after 28 days (EN 1015-11): > 2.5 N/mm<sup>2</sup>

Longitudinal elongation at break (DIN 53504): 17.2 %

Permeability to water vapor (UNI EN 1015-19): 240 μ

Static elastic modulus a compressione (EN 13142): 3500 N/mm<sup>2</sup>



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## Tools cleansing

- Water

## Applicable on

- Plasters
- Concrete
- Cement-based or lime-based mortars
- Prefabricated concrete
- Tiles
- Floor screed
- Bricks
- Polystyrene

## Substrate preparation

The application surfaces must be clean, free of dirt, crumbly and incoherent parts, dust, water-repellent treatments in general, etc. Any cracks due to plastic or hygrometric shrinkage, if present, must be preliminarily reclaimed with suitable products and techniques. In micro-cracked or particularly stressed areas, it is important to insert ARMAGLASS 160, an alkali-resistant fiberglass mesh, in the first fresh layer of OSMOCEM FLEX MONO. Immediately after laying the mesh, OSMOCEM FLEX MONO must be finished with a flat trowel (see also "Instructions for use").

In the case of large cladding surfaces, it is necessary to provide "chimneys" for venting the steam, suitably located.

## Instructions for use

OSMOCEM FLEX MONO must be mixed with clean water. The following water additions are allowed:

- 22-24% for application with a trowel.
- Maximum 30% for brush-roller application.

It is recommended to mix with a low speed mixer for at least a couple of minutes and, in any case, until a perfectly homogeneous and lump-free mixture is obtained. The addition of other ingredients (binders, aggregates, additives) must be absolutely avoided. A light wetting of the support is allowed immediately before the product is spread. Dry substrates must be previously primed with BOND PLUS (mixed with water in a ratio of 1: 1).

The typical application involves an application of about 3 mm of OSMOCEM FLEX MONO in two layers. The maximum recommended thickness for each applied layer is: by trowel / spray: 2 mm, by roller / brush: 1 mm.

When waterproofing terraces and balconies, OSMOCEM FLEX MONO must be applied in two successive coats, with a thickness of approximately 1.5 mm each (approximately 2.2 kg / m<sup>2</sup> per coat), each of which must be applied when the previous one appears stable. (not earlier than 4 hours at 20 ° C). It is recommended to interpose the ARMAGLASS 160 alkaline-resistant glass fiber mesh in the thickness of OSMOCEM FLEX MONO between the first and second coat. The PROBAND butyl self-adhesive strip must also be prepared between the screed and the elevation walls. Finally, it is recommended to position the special elastic band ELASTOTEX 120, or ELASTOTEX 120 CLOTH, in correspondence with any expansion joints, fixing it with the same OSMOCEM FLEX MONO. Do not use OSMOCEM FLEX MONO on heavily degraded or inconsistent substrates, as they would risk nullifying the goodness of the waterproofing. Do not apply on slightly or non-porous substrates or substrates previously coated with water-repellent treatments in general, unless after appropriate roughening using bush hammering machines, sanders and equipment suitable for preparatory treatments of the substrates, or after appropriate treatment with suitable polymeric primers.

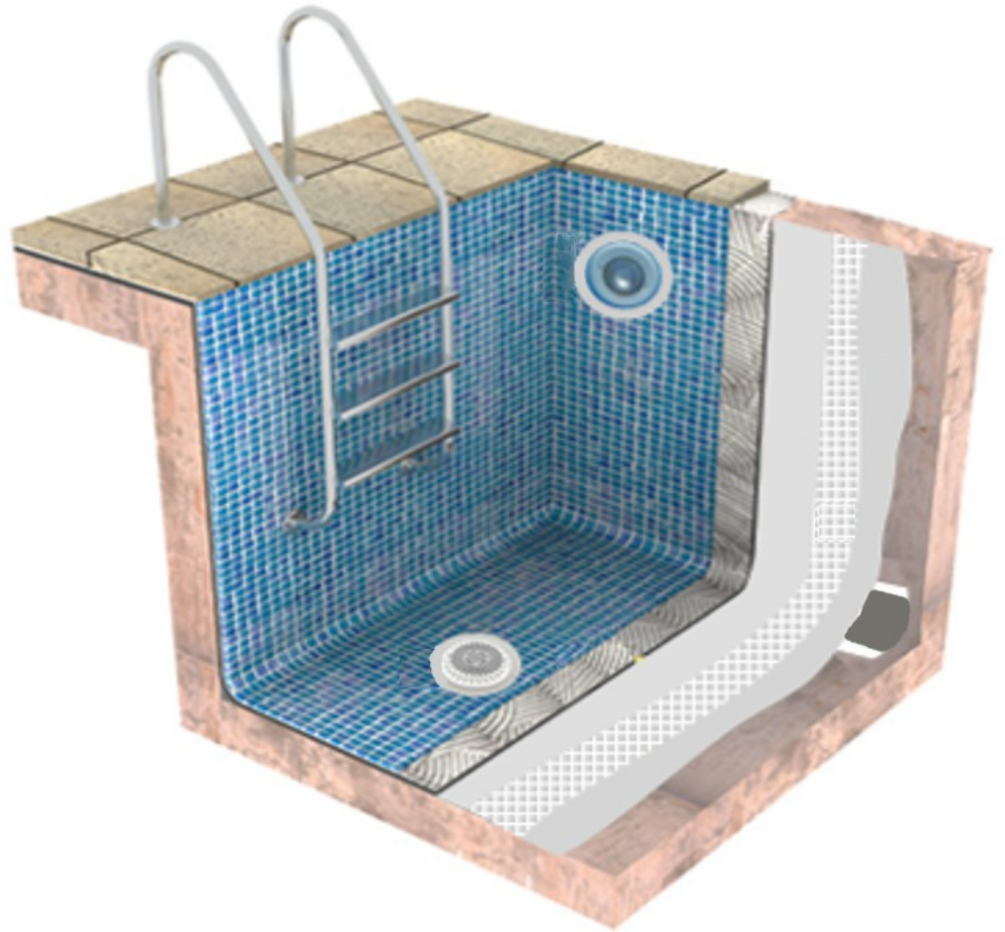
## Storage and preservation

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](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.

*OSMOCEM FLEX MONO is produced/distributed by*



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