

## Osmocem Flex Mono

Cementitious, flexible, single-component waterproofing product



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.

**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



### FEATURES AND BENEFITS

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.

### 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).

### ALLOWED SUPPORTS

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



## PREPARATION OF SUPPORTS

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.

## MODE OF 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.

## APPLICATION METHODS


Brush - Paint roller - Spatula


## TOOL CLEANING


Water

## KEY FEATURES

 Maximum diameter of aggregate: 0.6 mm

 Shelf-life: 12 months

 Pot-life: 40 min

 Temperature of use: +5 / +35 °C



## TECHNICAL SPECIFICATIONS

EN 1015-11

Compressive strength after 7 days > **2 N/mm<sup>2</sup>**

EN 1015-11

Flexural strength after 7 days > **1 N/mm<sup>2</sup>**

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Static elastic modulus **3500 N/mm<sup>2</sup>**

UNI EN 13057

Capillary absorption **0.06 kg·h<sup>0.5</sup>/m<sup>2</sup>**

UNI EN 1015-12

Bonding force **1.00 N/mm<sup>2</sup>**

Sd EN ISO 7783-1

Permeability to water vapor **CLASS I**

EN 1015-11

Compressive strength after 28 days > **3 N/mm<sup>2</sup>**

EN 1015-11

Flexural strength after 28 days > **1.5 N/mm<sup>2</sup>**

UNI EN 1015-6

Density **1650 kg/m<sup>3</sup>**

EN 14891-A.8.2

> **0.75 mm**

DIN 53504

Longitudinal elongation at break **17.2 %**

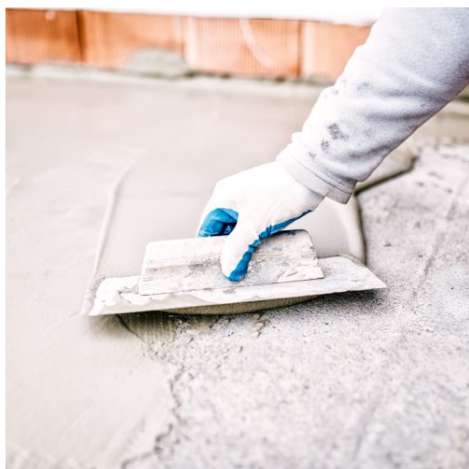
## CONSUMPTION

Approximately 1.4 kg / m<sup>2</sup> of Osmocem Flex Mono for each millimeter of thickness to be created.

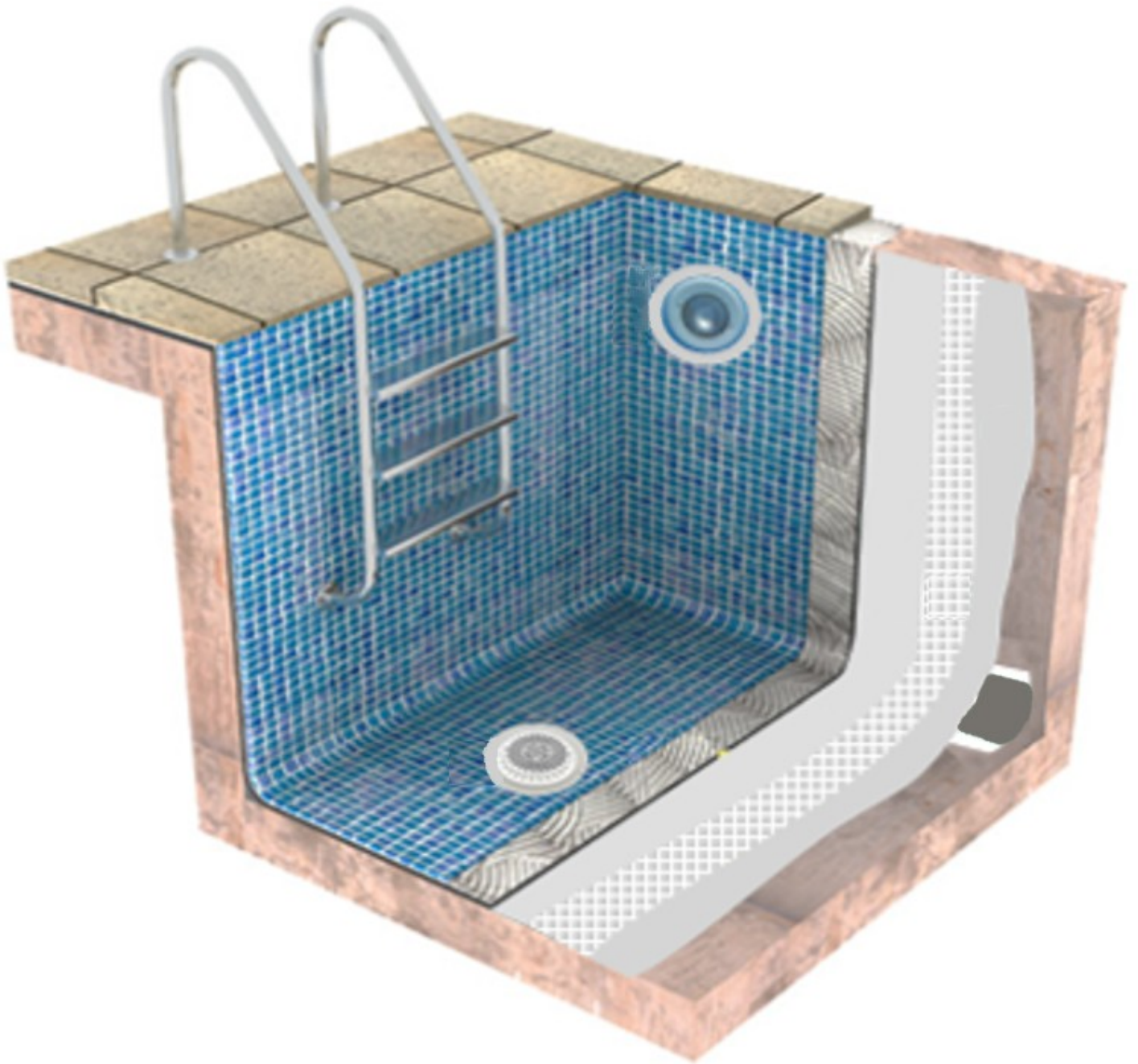
## STORAGE AND CONSERVATION

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



Produced and distributed by **AZICHEM srl**  
Via Giovanni Gentile, 16/A - 46044 Goito (MN), Italy  
Tel: +39 0376.604185 / 604365  
Fax: +39 0376 604398  
[www.azichem.com](http://www.azichem.com) - [info@azichem.com](mailto:info@azichem.com)

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