



Family
Osmocem

Type
Osmotic two-components cements

Product Lines
• Aqua
• Building

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

Components
Two-components

Appearance
Powder + Liquid

OSM.0084

OSMOCEM FLEX

Plasto-elastic waterproofing cement for terraces and masonry

Customs Code

3824 5090

Packaging

- Bag 24 kg [A]
- Plastic can 8 kg [B]
- Kit: 1 Bag 24 kg [A] + 1 Plastic can 8 kg [B]
- Pallet: 50 x (Bag 24 kg [A])
- Pallet: 50 x (Plastic can 8 kg [B])

Application

- Plastering machine
- Brush
- Pump
- Paint roller
- Spatula
- Scrubbing brush

Certifications and legislations



EN 998-1

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



EN 1504-2

Products and systems for the protection and repair of concrete structures - Surface protection systems for concrete



D.M. 06/04/2004, n. 174

Regulation concerning materials and objects that can be used in fixed systems for the collection, treatment, adduction and distribution of water intended for human consumption (in implementation of Directive 98/83/CE).

General description

A two-component osmotic cementitious waterproofing agent in water dispersion, being a modified polymer that is highly flexible and deformable, with a plastic-elastic conduct. Application by trowel, brush or roller. Ideal for waterproofing terraces, balconies and swimming pools, prior to laying the tiled or brick coating. Suitable for contact with drinking water.

General features

OSMOCEM FLEX is certified for compatibility with contact and containment of drinking water and food substances (certificate n. 04/2010 of the Laboratorio Analysis Service di Settimo di Pescantina - VR).

Two-component professional product. Proportioning of component A + component B specially designed to give the installer certainty of the result and guarantee of impeccable work: the tank of component B (8 kg) contains slightly more compared to the quantity necessary for mixing the bag (24 kg), allowing the installer, before laying the product, to withdraw from the tank up to 1 lt of the special resin of component B, dilute with 1 lt of water and use this aqueous emulsion to prime the application support; in this way at least three extraordinarily effective operations are performed with a simple and rapid priming: a) expulsion of the air from the superficial porosity fillers (with drastic reduction of the well-known blisters that occur on low thickness elastic products); b) reduction of the support absorption (to guarantee a suitable setting of the waterproof finish); c) increase in adhesion thanks to the deep penetration of the polymeric component.

Dosage

Approximately 1.8 kg/m² of OSMOCEM FLEX for each millimetre of thickness to be made.

Fields of application

Moisture-proofing concrete containment works (tubs, swimming pools, pipes, ducts, areas containing food, etc.). Moisture-proofing balconies, terraces, bathrooms, showers, etc., prior to laying successive plasters and screeds, ceramic coatings 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). Waterproofing coating of earth-retaining masonry, micro-cracked plaster. Deformable finishing coats in general.



www.azichem.com

Updated: 26/04/2022

General sales conditions and legal notices on

www.azichem.com/disclaimer

Basic features

 Maximum diameter of aggregate: < 0.4 mm	A:B Mixing ratio: 3:1 _
 Pot-life: 60 min	 Shelf-life: 12 months
 Suitable for contact with drinking water	 Temperature of use: +8 / +30 °C
 Available colours White / Gray	

Technical specifications

<i>Bonding force (UNI EN 1015-12):</i> 1.50 N/mm ²
<i>Bridging capacity on wide cracks:</i> 0.5-1.0 mm
<i>Capillary absorption (UNI EN 13057):</i> 0.06 kg•h ^{0.5} /m ²
<i>Density (UNI EN 1015-6):</i> 1800 kg/m ³
<i>Longitudinal elongation at break (DIN 53504):</i> 17.2 %
<i>Mixing ratio of the components A:B:</i> 3:1 _
<i>Permeability to water vapor (UNI EN 1015-19):</i> 240 µ

Tools cleansing

- Water

Applicable on

- Concrete
- Tiles
- Floor screed

Substrate preparation

Application surfaces should be clean and free of dust, soiling, crumbling and non-adhering parts, 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.

Any cracks from plastic or hygrometric shrinkage present should be preliminarily treated with appropriate products and techniques. In the case of extended coating surfaces you must provide appropriately placed "chimney flues" for venting steam.

Instructions for use

OSMOCEM FLEX comes in two predosed components that must be thoroughly mixed, with mixers with a low number of revolutions (maximum. 300 Revs/minute) until a homogeneous lump-free mixture is obtained. The addition of other ingredients should be absolutely avoided. The tank of component B (8 kg) contains slightly more compared to the quantity necessary for mixing the bag (24 kg), allowing the installer, before laying the product, to withdraw from the tank up to 1 lt of the special resin of component B, dilute with 1 lt of water and use this aqueous emulsion to prime the application support (see also the ADDITIONAL INFORMATION section). In case of exceptionally arid climate, it is possible to make moderate consistency corrections, where necessary, adding water up to a maximum of 8%.

When waterproofing terraces and balconies, two coats, each about 1.5 mm thick (2.2 kg/m² per coat), of OSOCEM FLEX should be applied, each coat should be applied when the previous one looks stable (at least 4 hours later at 20°C). It is recommended to interpose the fibreglass alkaline-resistant mesh ARMAGLASS 160 in the thickness of OSOCEM FLEX, between the first and second coat. The self-adhesive butyl band PROBAND should also be placed between the floor screeds and the elevation walls. Finally, it is advisable to place the special elastic band ELASTOTEX 120 or ELASTOTEX 120 CLOTH, at any expansion joints, securing it with the same OSOCEM FLEX.



www.azichem.com

Updated: **26/04/2022**
General sales conditions and legal notices on
www.azichem.com/disclaimer

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.



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. 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.

Do not use OSMOCEM FLEX on strongly degraded or non-adhering supports, since it would reduce the waterproofing quality. 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 FLEX is produced/distributed by



www.azichem.com

Updated: **26/04/2022**
General sales conditions and legal notices on www.azichem.com/disclaimer



Via Giovanni Gentile, 16/A - 46044 Goito (MN), Italy
info@azichem.com Tel. +39 0376.604185 /604365 Fax +39 0376 604398