



Family
Osmo cem

Type
Quick-setting waterproofing osmotic compounds

Product Lines
• Aqua
• Building
• Infratech

Functional Categories
• **Osmotic waterproofing**
• **Instantaneous stoppage of water infiltrations in buildings**
• **Structural maintenance of dams, reservoirs, ducts and water ducts**
• **Structural maintenance of tunnels**

Components
Single-component

Appearance
Powder

OSM.0080

OSMOCEM 447

Cement Mortar anti-leaching waterproof, for quick repairs

Customs Code

3816 0000

Dosage

2000 kg /m³

Packaging

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

Application

- Brick trowel
- Finishing trowel

Certifications and legislations



EN 998-1

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

General description

Anti-leaching mortar with plastic consistency, fast-hardening, based on silica fume, high resistance hydraulic binders, polymeric binders and selected siliceous aggregates; free from chlorides, aluminium, metal powders and harsh substances.

General features

OSMOCEM 447 is a rheoplastic, anti-leaching, quick-setting cement mortar for coatings in critical conditions, repairs, waterproofing even in the presence of moderate water runoff, coatings and fast renovation of hydraulic works. It is based on fast hardening hydraulic binders and superpozzolanic reactive fillers. It hardens without problems even if it is immersed in water. Due to the large amount of superpozzolanic reactive agents within the mortar itself, the water does not affect the cement granule at all and thus it does not leach the conglomerate. Thanks to its plastic consistency, OSMOCEM 447 is suitable for both horizontal and vertical coating applications.

Fields of application

Repairs, fast waterproofing even in the presence of moderate water runoff, quick coatings and renovation of hydraulic works, even in the presence of strong humidity and in very cold temperature conditions: raft foundations, walls, tanks, pipes, pondage, etc. To quickly close large gaps in pilings and diaphragms. Repairs and quick coatings of road circuits and airport runways. For the correction of the rapidity of hardening of reinforced fibre mortars of the REPAR family.

Available colours

- Gray

Basic features



Highlighted product



Maximum diameter of aggregate:
4 mm



Mix with water:
15 %



Nonflammable



Pot-life:
10 min



Shelf-life:
12 months



Solvent-free



Temperature of use:
+2 / +30 °C

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Technical specifications

Bonding force (UNI EN 1542): 2.35 N/mm²

Capillary absorption (UNI EN 1015-18): 0.1 kg•h^{0.5}/m²

Compressive strength (UNI EN 1015-11): > 55 N/mm²

Density (UNI EN 1015-6): 2.125 kg/m³

Tools cleansing

- Water

Applicable on

- Concrete
- Rock walls

Substrate preparation

The application surfaces should be clean, free of incrustations, dust, non-adhering parts, etc.

Instructions for use

Pour about 2/3 of the mixing water into the mixer, add OSMOCEM 447 and the remaining water; continue to mix until a homogeneous, lump-free mixture is obtained. The mixture water should be about 15%-16% by weight (4-4.5 litres per bag), adjust the amount of water based on the different application situations that the product is designed for. Apply on site and float with all due care in order to obtain the best compactness of planar recovery or of the coating.

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

Technical and performance data outlined in this document are the result of laboratory testing conducted in a conditioned environment, as such they can result as considerably changed from operating and application conditions. The need follows to carry out preliminary tests in actual use conditions.

The user is required to check the product's most recent Material Safety Data Sheet, reporting physical-chemical and toxicological data, risk phrases and other useful information on how to safely transport, use and dispose of the product and its packaging. It is also reminded that the product and its packaging must not be dispersed in the environment for any reason.

It is always essential to carry out preliminary tests to check the suitability of the product based on specific requirements.

OSMOCEM 447 is produced/distributed by



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