



OSM.0080

OSMOCEM 447

Cement Mortar anti-leaching waterproof, for quick repairs

Customs Code

3824 5090

Packaging

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

Application

- Brick trowel
- Finishing trowel

Family
Osmocem

Product Lines

- Aqua
- Building
- Infratech

Components
Single-component

Type
Quick-setting waterproofing osmotic cements

Functional Categories

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

Appearance
Powder

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.

Dosage

Approximately 19 kg/m² of OSMOCEM 447 for every centimetre of thickness to be implemented (approximately 1900 kg per cubic metre).

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.

Basic features



Highlighted product



Maximum diameter of aggregate:
4 mm



Mix with water:
15 %



Nonflammable



Pot-life:
10 min



Quick setting product



Shelf-life:
12 months



Temperature of use:
+2 / +30 °C



Available colours
Gray

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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

Flexural strength (UNI EN 1015-11): > 7 N/mm²

Static elastic modulus (EN 13412): 24000 N/mm²

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

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.

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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