

## Osmocem 447

Cement Mortar anti-leaching waterproof, for quick repairs



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.

**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

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.

### ALLOWED SUPPORTS

Concrete - Rock walls



## PREPARATION OF SUPPORTS

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

## MODE OF 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.








## APPLICATION METHODS

Brick trowel - Finishing trowel

## TOOL CLEANING

Water

## KEY FEATURES

-  Maximum diameter of aggregate: 4 mm
-  Nonflammable
-  Quick setting product
-  Temperature of use: +2 / +30 °C
-  Mix with water: 15 %
-  Pot-life: 10 min
-  Shelf-life: 12 months

## TECHNICAL SPECIFICATIONS

*UNI EN 1015-11*  
Compressive strength > **55 N/mm<sup>2</sup>**

*UNI EN 1015-18*  
Capillary absorption **0.1 kg•h<sup>0.5</sup>/m<sup>2</sup>**

*UNI EN 1015-6*  
Density **2.125 kg/m<sup>3</sup>**

*UNI EN 1015-11*  
Flexural strength > **7 N/mm<sup>2</sup>**

*UNI EN 1542*  
Bonding force **2.35 N/mm<sup>2</sup>**

*EN 13412*  
Static elastic modulus **24000 N/mm<sup>2</sup>**

## CONSUMPTION

Approximately 19 kg/m<sup>2</sup> of Osmocem 447 for every centimetre of thickness to be implemented (approximately 1900 kg per cubic metre).

## 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



## WARNINGS AND PRECAUTIONS

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

