



Osmocem

One-component osmotic waterproofing mortar for thickness from 5 to 20 mm, resistant to water pressure and back pressure, for indoor and outdoor application.



Fields of application:

- waterproofing with high resistance to pressure and back pressure with thickness from 5 to 20 mm;
- waterproofing of structures for containing aggressive waters (channels, ducts, tanks);

- waterproofing of basements, cellars, foundation walls, terraces, swimming pools, bathrooms and elevator wells;
- professional use only.

Characteristics:

Osmocem is a one-component, high performance osmotic cement-based waterproofing mortar, for indoor and outdoor application, ready for use, made of selected cements that are properly modified for high performance, hydrophobic additives, powder resins and aggregates in grade curve. **Osmocem** penetrates the cortical layer of the substrates reacting with the calcium hydroxide in the substrate, creating a non-soluble and stable compound with high adhesion, generating a barrier against water seepage. Indicated for indoor and outdoor civil, commercial and industrial applications.

Application:

every bag of **Osmocem** must be mixed with 5 l of clean water without adding anything and leaving it rest in the bucket for 10 minutes. **Osmocem** is applied directly on the substrates that must be very clean and sound. Any fault in the substrate must be restored with **Fibrocem R4** o **Fibrocem Tissotropico**, for guaranteeing a perfectly homogeneous thickness. It is manually or machineapplied directly on the substrate. Saturate the substrate with water before applying **Osmocem** adjusting it with American trowel, caring not to apply an excessive thickness in a single coat, rather to apply several coats at 24-h intervals. The applied thickness must never be less than 5 mm.

Quality and Environmental Standards:

Osmocem undergoes constant, careful testing at our laboratories, in compliance with the legislation in force UNI EN ISO 9001/2015.

Characteristics	Application methods	Consumption
One-component Mixture water: 6 l/bag Applic. temperature: from +5°C to +35°C Workability time: about 2 h at +20°C Application min. thickness/coat: 1 mm Application max. thickness/coat: 3 mm Max. total thickness: 10 mm Adhesion to concrete after 28 days: 1,5 N/mm ² Working temperature: from -30°C to +90°C Resistance to water back pressure: (5 mm thickness): 2 bar Resistance to water back pressure: (10 mm thickness): 5 bar Granulometry: 0.5 mm	Trowel Brush Machine	1.85 kg/m ² every mm of thickness
		Storage Shelf life of 12 months in the closed original packages and in a dry place.

Code	Product	Form and color	Packages	Pallet
43 225	Osmocem	Grey Powder	25 kg bag	1500 kg

Warning

- do not use **Osmocem** to solve condensation problems indoors (use dehumidifying plaster, ventilate the rooms, create suitable insulation);
- do not apply **Osmocem** to surfaces subject to traffic of any kind, or surfaces where it may be damaged by falling objects; in the event protect with a cement screed (**Basecem Pronto**) approx. 4/5 cm thick;
- do not apply to bases that have already been treated with paint, resin, or bitumen products, unless these have been completely removed;
- do not apply to gypsum or anhydrite surfaces.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant
Mixing water:	18-19% weight (5 l per 25 kg bag)
Specific weight of mixture:	1.85 g/cm³
Mixture pH:	approx. 12
Application temperature:	from +5°C to +35°C
Pot life:	2 hours at +20°C
Minimum thickness per coat:	5 mm
Maximum thickness per coat:	10 mm
Maximum overall thickness:	20 mm
Ready for use:	15 days

FINAL PERFORMANCE SPECIFICATIONS

Adhesion to concrete after 28 days:	2 N/mm²
Room/ambient temperature:	from -30°C to +90°C
Resistance to water back pressure (5 mm thick):	3 bar
Resistance to back pressure (10 mm thick):	5 bar
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

