



Osmocem Fine

One-component osmotic waterproofing mortar for thickness from 1 to 10 mm, resistant to water pressure and back pressure, vapor permeable, for indoor and outdoor application.



Fields of application:

- waterproofing with high resistance to pressure and back pressure with thickness from 1 to 10 mm;
- waterproofing of structures for containing aggressive waters (channels, ducts, tanks);

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

Characteristics:

Osmocem Fine 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 Fine** 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.

Preparation:

the surfaces to waterproof must be perfectly clean and sound. Any parts that are crumbling or coming away, along with dust, traces of form remover oil, varnish or paint applied previously, must be removed by thorough brushing or washing with high-pressure water jets. Existing plaster/render must be perfectly anchored to the substrate. Seal any cracks in the substrate or gravel nests and repair the deteriorated parts with **Fibrocem Tissotropico** (see relative technical info sheet). Soak the substrate with water until it is saturated. Wait until the excess water evaporates.

Application:

pour the amount of water required for the type of application and the desired consistency into a suitable clean container. Then blend in the **Osmocem Fine** using a mechanical stirrer at low speed. Mix for a few minutes until a smooth consistency is obtained, and do not add other aggregates or hydraulic binders. Leave the mix to rest for approx. 10 minutes, remix and then apply. If the mixture is already hardening, do not attempt to restore workability by adding water. **Osmocem Fine** can also be applied with a plastering machine.

We recommend you treat the base with a first coat, trowelled on to a thickness of no more than 2 mm. When this layer starts to set, apply a second layer (if necessary), then even out and float-finish. It is advisable not to leave more than 24 hours between one coat and the next. We recommend you ensure the mortar penetrates deeply so that the surface to waterproof is well sealed.

The thickness of the coat must never be less than 1 mm or more than 2 mm.

Quality and Environmental Standards:

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

	
Opera Srl Via degli Scavi 19/21 47122 Forlì - Italy	
DOP-IT-01-056 OSMOCEM FINE EN 1504-2:2005 Coating for the surface protection of concrete against penetration risks.	
Fire reaction: CO ₂ permeability: Capillary absorption and water permeability: Durability: Direct tensile adherence: Release of harmful substances:	Classe F SD= 50 m ≤ 0,1 kg " m ⁻² h ^{-0,5} NPD ≥ 1,0 N/mm ² See safety sheets

Characteristics	Application methods	Consumption
One-component Mixture water: 6 l/bag Applic. temperature: from +5°C to +35°C Workability time: about 1 h at +20°C Application min. thickness/coat: 1 mm Application max. thickness/coat: 3 mm Max. total thickness: 10 mm Ready for use: 10 days 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 Vapor permeable Granulometry: 0.5 mm	Trowel Brush Machine	1.70 kg /m ² every mm of thickness Storage Shelf life of 12 months in the original packages and in a dry place

Code	Product	Form and color	Packages	Pallet
431224	Osmocem Fine	Grey powder	25 kg bag	1500 kg

Warning

- do not use **Osmocem Fine** to solve condensation problems indoors (use dehumidifying plaster, ventilate the rooms, create suitable insulation);
- do not apply **Osmocem Fine** 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:	24% weight (6 l per 25 kg bag)
Specific weight of mixture:	1.70 g/cm³
Mixture pH:	approx. 12
Application temperature:	from +5°C to +35°C
Pot life:	1 hour at +20°C
Minimum thickness per coat:	1 mm
Maximum thickness per coat:	3 mm
Maximum overall thickness:	10 mm
Ready for use:	10 days

FINAL PERFORMANCE SPECIFICATIONS

Adhesion to concrete after 28 days:	> 1.5 N/mm²
Room/ambient temperature:	da -30°C a +90°C
Resistance to back pressure (1 mm thick):	2 bars
Resistance to back pressure (2 mm thick):	5 bars
Vapour permeability:	10 µ
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.

