



Hydro osmo K

Cement mortar with osmotic action, for rigid waterproofing.



MAIN FIELDS OF USE

It is particularly suitable to:

Protect and superficially waterproof elevator compartments, ground walls and underground structures, etc. Suitable both as a final layer and as an intermediate layer before the laying of paintings and decorative coatings.

Recommended applications:

Waterproof the inside of tanks, cisterns, canals, tanks, galleries, tunnels, in any condition in which the ability to act as a bridge to cracks is not required.

- Suitable substrates (indoors or outdoors):
- Concrete
- Mortar
- Lime/cement-based plasters
- Clay brick
- Masonry in general

CHARACTERISTICS

Resistance to hydrostatic thrust, counteracts both positive and negative water penetration.

High adhesion power, which makes it suitable for waterproofing all common cement substrates.

High transpiration feature, conferred by special additives, releases the steam behind avoiding accumulations.

Excellent resistance to frost, heat and chemical aggression, proof of its reliability over time.

Resistant to abrasion, thanks to hydraulic binders, it guarantees durability in the case of water with transport of solids.

The easy workability conferred by inert aggregates and cellulose, allows spray, spatula or brush applications.

METHODS OF APPLICATION

Preparation of the substrate

The substrate must be clean, planar, cohesive and free of any kind of detaching substance. It is always recommended to use a primer to even out the absorption.

- **New substrates:** no precautions beyond those indicated.
- **Degraded or crumbling substrates:** remove any friable, poorly cohesive or detachable parts and restore the correct flatness with **licata** products

Preparing the mixture

- 1_Pour Component B (liquid) into a clean container
- 2_Slowly add Component A (powder) by mixing mechanically with a low speed drill to avoid air entrainment.
- 3_Let it rest for 1-2 minutes, then stir again before use.

It is possible to mix the product using plastering machines, while the use of continuous cycle machines is strongly discouraged.

Hydro Osmo K should be used as is, with only the addition of clean water. Do not split packs for partial mixing or use open bags.

Application

- 1_Spread the product by brush, roller or spatula, within 60 minutes of mixing.
 - 2_When the first coat has matured (approx. 24 hours depending on the weather conditions), spread a second coat.
 - 3_The thickness for each layer must not exceed 1.5 mm, the final thickness must be between 3 and 4 mm.
 - 4_For demanding cases such as very uneven surfaces, the presence of microcracks, areas subject to wear, substrates subject to settling or movement and for applications at the interface between different materials, the use of the reinforcement mesh is strongly recommended.
- Drown, on the first layer of material still fresh, the micro-perforated polypropylene fabric **Lica Armor 1000**, once the material has hardened proceed to the laying of the second coat of **Hydro Osmo K**.

PRODUCT INFORMATION

Appearance	Grey or white powder
Particle size	<0.5 mm;
Powder consumption	1.450 kg/m ² every 1 mm of thickness
Mixing ratio	Grey 24%-26% of the weight of the powder White 23% - 25% of the weight of the powder
Workability time at 20 °C	30 - 40 minutes
Application thickness per coat	≤1.5 mm
Application temperature	From +5 ° to +35 °C
Storage in unopened original packaging	12 months in a dry place between +5° and +35°C
Packaging	25 Kg
Density	1700-1800 Kg/m ³

TECHNICAL DATA

Characteristic	Test method	Performance
Compressive strength	UNI EN 12190	- 24 hours ≥ 8 MPa - 7 days ≥ 30 MPa - 28 days ≥ 35 MPa
Flexural strength	UNI EN 196/1	- 24 hours ≥ 8 MPa - 7 days ≥ 30 MPa - 28 days ≥ 35 MPa

WARNINGS

- Product for professional use.
- In the case of applications other than those indicated in the sheet, it is advisable to carry out a suitability check in advance and/or contact the licata Technical Service for further information.
- Always check the colour, texture and appearance before application. Any claims regarding this will not be accepted once the product has been applied.
 - Do not apply in extreme conditions such as on icy surfaces or in the presence of fog/excessive ambient humidity.
- To avoid aesthetic and functional defects, adequate shielding must be provided in case of direct exposure to sunlight.
- Make sure that the ambient, substrate and product temperatures during application and drying are between +5°C and +35°C.
 - Properly care for the product until it is completely dry and at least in the first 48-72 hours, protecting it from rain, wind, weather and direct sunlight.
 - The temperature and humidity can accelerate (if high) or slow down (if too low) even drastically the maturation process, until it stops completely.
 - The presence of scaffolding, the use of natural raw materials and the impossibility of controlling atmospheric conditions and the substrate can lead to signs of recovery and inhomogeneity for which licata SpA is not responsible.
 - The fresh product can be washed with water.

SAFETY

Protect eyes and hands during application.
Read and keep the latest version of the Safety Data Sheet available for information on the correct disposal, storage and handling of the product.

NOTES

This data sheet replaces and voids all previous versions.
The instructions and performance information given in this document are based on our current technical-scientific knowledge and must in any case be considered purely indicative and refer to standard laboratory conditions. The purchaser must, therefore, check that the product is suitable for his specific requirements. All the documentation necessary for the safe use of licata SpA products is available in its most up-to-date form on the **licata SpA** company website. Additionally, our technical-commercial network guarantees a quick inquiry and remains available to you for information and explanations. For further information, contact the licata Technical Service at servizio-tecnico@licataspa.it
Data sheet ref.: TDS P10045 - rev.07/21.