



HERALASTIC OSMO PRO

One-component cementitious mortar with osmotic action for waterproofing masonry and concrete structures, in negative and positive thrust



TECHNICAL FEATURES

HERALASTIC OSMO PRO is a one-component, high-performance osmotic cementitious waterproofing mortar, for interiors and exteriors, ready to use, composed of specially modified high-strength cements, hydrophobic additives, synthetic resins and aggregates in selected granulometric curve, pre-dosed together according to the scrupulous research of the laboratory **HERAKEM**.

HERALASTIC OSMO PRO mixed with water, gives rise to a fluid mortar, applicable both by trowel and by brush, characterized by total impermeability to water even in counterthrust and by high adhesion, penetrating into the cortical layer of the substrate and reacting with the hydroxide of calcium present, creates a stable and insoluble compound. For civil, commercial and industrial use indoors and outdoors.

FIELD OF APPLICATION

HERALASTIC OSMO PRO is suitable for rigid waterproofing of concrete or masonry surfaces, in positive thrust and in particularly where good resistance to negative hydraulic thrust (counter thrust) is required.

HERALASTIC OSMO PRO is used to waterproof earth walls, pits, elevators, basins, water tanks, underpasses and swimming pool foundations. It is also suitable for waterproofing artifacts, for water containment such as: channels, basins, water tanks.

PREPARATION OF THE SUBSTRATE

The substrates must be cured and dry, free from dust, oils and greases, free from crumbly and insubstantial parts or not perfectly anchored. The bottom must be stable, non-deformable, without cracks and have already completed the hygrometric shrinkage of maturation.

In the case of substrates under direct solar radiation, it is advisable to moisten them abundantly with a sponge in order to cool them. Wait for the surface water to evaporate before starting to apply the product. Restore excessive unevenness with **HERARAS ONE** smoothing compound for thicknesses not exceeding 3 mm, for higher thicknesses and for quick intervention use **HERAGROUT MONO**.

MIX PREPARATION

HERALASTIC OSMO PRO it can be applied with a spatula or brush.

To apply by brush, mix the product with about 6.5 liters of water per bag until a creamy and fluid mixture is obtained without lumps.

For application with a spatula, mix the product with about 5.5 liters of water per bag until a viscous and lump-free mixture is obtained.

The mixture must be carried out for about 1.5 minutes with a low speed drill (approx. 500 rpm) since a high speed would incorporate excessive air, reducing the mechanical performance of the product; after resting for about 5 minutes, mix it briefly and start applying the product.

APPLICATION

As a first step, it is essential to wet the substrate to excess with water, taking care to avoid water stagnation at the time of application. The wetting of the support is particularly important so that the product has the necessary water for the osmotic process and the hardening reactions.

HERALASTIC OSMO PRO it is applied with a brush in two crossed coats, first treating the walls from top to bottom, then the floor. If the brush flows with difficulty, do not add liquid to the mixture but further wet the support. The second coat is applied in the same way on the first layer in the hardening phase (about 3–5 hours) and in any case after max. 12 hours. For application with a trowel, it is recommended to treat the substrate with a first brush application, to ensure that the product penetrates sufficiently into the substrate and then apply with a smooth trowel. In any case, the overall thickness must not exceed 4 mm. At corners and / or edges, apply **HERALASTIC OSMO PRO** through the preliminary creation of coves or rounding of the support. If it is necessary to proceed with plastering or cement screeds, cover **HERALASTIC OSMO PRO** after at least 12 hours and no later than 24 hours with a rough coat of sand and cement mixed with latex.

CLEANING

The tools used can be cleaned with water before the adhesive hardens; subsequently, cleaning can only take place by mechanical removal.

ITEM OF SPECIFICATIONS

Waterproofing using premixed osmotic mortar to be mixed with water only, such as **HERALASTIC OSMO PRO** by **HERAKEM srl**. The mortar will be applied in two and three crossed coats at a distance of 4–6 hours from each other. The product meets the minimum requirements of **EN 1504-2** coatings (c) according to the **MC** and **Ir principles** for the protection of concrete.



WARNINGS

- Avoid application at temperatures below + 5 ° C, in the presence of strong wind, rain and in direct sunlight. During the summer, the temperature during application must not exceed + 35 ° C.
- Avoid application on frozen, dusty, unstable and inconsistent substrates.
- Wet the substrates with clean water before applying the product.
- Make final thicknesses not less than 2-3 mm.
- Avoid application on gypsum-based substrates, plasterboard, wood, painted walls, plastic plasters, asbestos-cement.
- Do not use the product to solve capillary rising problems on above-ground walls, use dehumidifying plasters.
- Do not use on substrates subject to dynamic movements or on substrates with stagnant water on the surface.
- Do not use on flexible surfaces
- Do not mix **HERALASTIC OSMO PRO** with additives, cement or aggregates.

TECHNICAL DATA *(at +22±1°C and 55±5% R.H.)

Appearance	gray powder	Mixing water ratio	6.5 liters every 25 kg for brush application 5.5 liters every 25 kg for application by trowel
Consistency	fluid-trowelable mix	Pot life of the mix	about 60 minutes
Deformability	not deformable	Application temperature	from +5°C to +35°C
Maximum aggregate size	0.5 mm	Application 2 nd coat	after 4 hours and no later than 24 hours
Apparent density	approx. 1500 Kg/m ³	Compressive strength 28 days	20 Mpa
Density of the mix	approx. 1700 Kg/m ³	Flexural strength 28 days	6 Mpa
Solid residue	100%	Adhesion to concrete	> 2 Mpa - EN 1542
Storage	12 mesi nell'imballaggio originale in luogo asciutto	Absorption (kg/m ² · h ^{0,5})	W < 0.05 classe III - EN 1062-3
Flammability	no	Reaction to fire	Euroclasse
Customs heading	3824 5090		

Consumption	approx. 1.5 Kg/m² per mm of applied thickness	Packaging	25 kg bag
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PRODUCT FOR PROFESSIONAL USE ONLY

All the data and indications given in this technical data sheet, although resulting from laboratory tests carried out and from our direct application experiences, due to the infinite number of variables linked to the construction site conditions, are to be considered, in any case, purely indicative. Therefore, before applying the product, the user is required to establish whether it is suitable for the use envisaged by him, in the specific hygrothermal and application conditions foreseen at the time of use and, in any case, he assumes all responsibility for it. We are not liable for damage to people or things deriving from improper use of the product. We reserve the right to modify the data contained therein as a result of improvements and technical progress.