



Drymortar

Fine-grained, fiber-reinforced thixotropic structural cementitious mortar with crystallizing technology for the restoration and active waterproofing of concrete

Drykos® **Drymortar** is a single-component, thixotropic, fiber-reinforced, and shrinkage-compensated structural cementitious mortar with a fine grain size (≤ 0.6 mm), developed for the cortical restoration and protection of concrete.

The product is formulated with high-strength cements, super-pozzolanic fillers, selected aggregates, and polymer fibers, integrated with Drykos crystallizing technology, which enables the formation of insoluble crystalline complexes within the cementitious matrix. These crystals, developing within the pores and capillaries of the substrate, create an active waterproofing system capable of blocking water penetration even under pressure and protecting the concrete from the action of aggressive agents and chlorides. The crystallizing reaction reactivates over time in the presence of moisture, contributing to the progressive reduction of the material's permeability and promoting self-healing phenomena of micro-cracks.

Unlike traditional mortars, Drykos® **Drymortar** is not limited to the mechanical restoration of the substrate but creates a waterproof barrier integrated into the structure, significantly increasing the durability and protection of the intervention.

TECHNICAL PERFORMANCE

Characteristic	Test method	Standard requirements	Performance
Density	EN 1015-6		2080 kg/m ³
Pot life			30-40 minutes
Minimum recommended thickness			2 mm
Maximum recommended thickness			20 mm
Mixing water			18-19%
Flow	EN 13395		170 mm
Compressive strength at 24 hours	EN 12190		16 N/mm ²
Compressive strength at 7 days	EN 12190		38 N/mm ²
Compressive strength at 28 days	EN 12190	Structural - Class R3 ≥ 25 N/mm ² Class R4 ≥ 45 N/mm ²	Class R4: 46 N/mm ²
Flexural strength at 24 hours	EN 196-1		4 N/mm ²

Characteristic	Test method	Standard requirements	Performance
Flexural strength at 7 days	EN 196-1		6.2 N/mm ²
Flexural strength at 28 days	EN 196-1		6.2 N/mm ²
Chloride ion content	EN 1015-17	≤ 0.05%	0,04%
Adhesive bond	EN 1542	Structural - Class R3 ≥ 1.5 N/mm ² Class R4 ≥ 2.0 N/mm ²	Class R3: ≥ 1.5 N/mm ²
Carbonation resistance	EN 13295	dk ≤ control concrete	0.5 mm
Elastic modulus	EN 13412	≥ 20 kN/mm ²	22.4 kN/mm ²
Thermal compatibility Part 1, freeze-thaw	EN 13687-1	≥ 2.0 N/mm ²	≥ 2.0 N/mm ²
Capillary absorption	EN 13057	≤ 0.5 kg·h ^{0.5} /m ²	≤ 0.5 kg·h ^{0.5} /m ²
Reaction to fire	EN 13501-1		Class F
CAM - Total recycled material content	UNI PdR 88		≥ 2.7%

NOTES

This "light" version of the technical data sheet provides a selection of the product's main descriptive and performance characteristics. While the data contained herein corresponds to our current scientific and technical knowledge, it is indicative and not exhaustive. For complete specifications, detailed technical information, conditions of use, and official updates, please refer exclusively to the full technical data sheet, available in its latest revision at www.drykos.com.

Full technical datasheet

