



Drymortar P

Pourable shrinkage-compensated structural repair mortar for restoration, reconstruction, and anchoring with crystallizing technology for active restoration and waterproofing of concrete

Drykos® **Drymortar P** is a single-component, pourable, rheoplastic, shrinkage-compensated structural cementitious mortar designed for restoration, reconstruction, and consolidation of concrete structures. The product is formulated with high-strength cements, super-pozzolanic fillers, selected aggregates with a maximum diameter of 6 mm, shrinkage-compensating and polymer-modifying additives capable of providing high mechanical performance, durability, and dimensional stability, integrated with Drykos crystallizing technology, which enables the formation of insoluble crystalline complexes within the cementitious matrix. These crystals, developing in 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 aggressive agents and chlorides. The crystallizing reaction reactivates over time in the presence of moisture, progressively reducing the permeability of the material and promoting self-healing phenomena in microcracks.

Thanks to its high fluidity and self-leveling capacity, Drykos® **Drymortar P** enables poured or pumped casting even in complex geometries, ensuring complete filling of volumes and excellent adhesion to the substrate and reinforcement. After hardening, the product develops high mechanical strength, low water permeability, and excellent resistance to aggressive agents, making it particularly suitable for structural applications even in severe environments. Unlike traditional mortars, Drykos® **Drymortar P** does not merely provide mechanical restoration of the substrate but creates an integrated waterproof barrier within the structure, significantly increasing the durability and protection of the intervention.

TECHNICAL PERFORMANCE

Characteristic	Test method	Standard requirements	Performance
Bulk density	EN 1015-6		2,320 kg/m ³
Pot life			30-40 minutes
Minimum recommended thickness			3 cm
Maximum recommended thickness			15 cm
Mixing water			11-12%
Compressive strength after 24 hours	EN 12190		24 N/mm ²
Compressive strength after 7 days	EN 12190		58 N/mm ²
Compressive strength after 28 days	EN 12190	Structural - Class R3 ≥ 25 N/mm ² Class R4 ≥ 45 N/mm ²	Class R4: 75 N/mm ²

Characteristic	Test method	Standard requirements	Performance
Flexural strength after 24 hours	EN 196-1		5.6 N/mm ²
Flexural strength after 7 days	EN 196-1		8.5 N/mm ²
Flexural strength after 28 days	EN 196-1		8.6 N/mm ²
Chloride content	EN 1015-17	≤ 0.05%	0,01%
Bond strength	EN 1542	Structural - Class R3 ≥ 1.5 N/mm ² Class R4 ≥ 2.0 N/mm ²	Class R4: ≥ 2 N/mm ²
Pull-out resistance of ribbed steel bar	EN 1881	≤ 0.6 mm with load of 75 kN	≤ 0.6 mm
Resistance to carbonation	EN 13295	dk ≤ control concrete	Pass
Elastic modulus	EN 13412	≥ 20 kN/mm ²	30 kN/mm ²
Skid resistance	EN 13036-4	Structural - Class I: > 40 units with wet test Class II: > 40 units with dry test Class III: > 55 units with wet test	Class II
Determination of thermal compatibility	EN 13687-1		≥ 2 N/mm ²
Capillary absorption	EN 13057	≤ 0.5 kg·h ^{0.5} /m ²	0.2 kg·h ^{0.5} /m ²
Thermal conductivity	EN 12664		0.82 W/mK
CAM - Total recycled material content	UNI PdR 88		≥ 3.0%
Reaction to fire	EN 13501-1		Class A1

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



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