



Drymortar Tix

Thixotropic structural cementitious mortar, fiber-reinforced, with crystallizing technology for restoration and active waterproofing of concrete

Drykos® **Drymortar Tix** is a single-component structural cementitious mortar, thixotropic, fiber-reinforced and shrinkage-compensated, developed for restoration and reconstruction of degraded concrete structures. The product is formulated with high-strength cements, super-pozzolan fillers, selected aggregates and polymeric fibers, 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 material permeability and promoting self-healing phenomena of microcracks. Thanks to its thixotropic rheology, Drykos® **Drymortar Tix** can be applied vertically and overhead, ensuring excellent workability, absence of sagging and thickness stability. After hardening, the product exhibits high compressive and flexural strength, excellent adhesion to concrete and reinforcement, high impermeability and resistance to atmospheric agents, freeze-thaw cycles and aggressive environments. Unlike traditional mortars, Drykos® **Drymortar Tix** 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			~ 20 minutes
Minimum recommended thickness			8 mm
Maximum recommended thickness			30 mm
Mixing water			16-17%
Compressive strength at 24 hours	EN 12190		22 N/mm ²
Compressive strength at 7 days	EN 12190		45 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: 57 N/mm ²
Flexural strength at 24 hours	EN 196-1		4.5 N/mm ²

Characteristic	Test method	Standard requirements	Performance
Flexural strength at 7 days	EN 196-1		7 N/mm ²
Flexural strength at 28 days	EN 196-1		7.5 N/mm ²
Chloride ion 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
Carbonation resistance	EN 13295	dk ≤ control concrete	0.5 mm
Elastic modulus	EN 13412	≥ 20 kN/mm ²	25 kN/mm ²
Thermal compatibility Part 1, freeze-thaw	EN 13687-1	≥ 2.0 N/mm ²	≥ 2.0 N/mm ²
Skid resistance	EN 13036-4	Structural - Class I: > 40 units wet test Class II: > 40 units dry test Class III: > 55 units wet test	Class III
Capillary absorption	EN 13057	≤ 0.5 kg·h ^{0.5} /m ²	0.3 kg·h ^{0.5} /m ²
Reaction to fire	EN 13501-1		Class A1
CAM - Total recycled material content	UNI PdR 88		≥ 4.5%

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

