



Renov Tix

Thixotropic, fiber-reinforced, high-strength repair mortar for the restoration of concrete structures

Drykos® **Renov Tix** is a single-component, thixotropic, fiber-reinforced, shrinkage-compensated structural cementitious mortar developed for the restoration and reconstruction of degraded concrete structures. The product is formulated with high-strength cements, super-pozzolan fillers, selected aggregates, and polymeric fibers, appropriately modified with modifying and stabilizing agents, capable of providing high mechanical performance, substrate adhesion, and long-term durability. Thanks to its thixotropic rheology, Drykos® **Renov Tix** can also 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.

TECHNICAL PERFORMANCE

Characteristic	Test method	Standard requirements	Performance
Bulk density	EN 1015-6		2,220 kg/m ³
Pot life			~ 30 minutes
Minimum recommended thickness			7 mm
Maximum recommended thickness			40 mm
Mixing water			16%
Compressive strength at 24 hours	EN 12190		> 25 N/mm ²
Compressive strength at 7 days	EN 12190		> 50 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: > 65 N/mm ²
Compressive strength at 90 days	EN 12190		> 70 N/mm ²
Flexural strength at 24 hours	EN 196-1		> 5 N/mm ²
Flexural strength at 28 days	EN 196-1		> 8 N/mm ²
Chloride ion content	EN 1015-17	≤ 0.05%	< 0.01%

Characteristic	Test method	Standard requirements	Performance
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	$dk \leq$ control concrete	0.5 mm
Elastic modulus	EN 13412	≥ 20 kN/mm ²	26 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 with wet test Class II: > 40 units with dry test Class III: > 55 units with 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
Determination of restrained expansion of mortar at 1 day	UNI 8147		0,01%
CAM - Total recycled material content	UNI PdR 88		$\geq 4.5\%$

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



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