



Renov Col

Pourable shrinkage-compensated structural repair mortar for restoration, reconstruction, and anchoring

Drykos® **Renov Col** is a single-component, pourable, rheoplastic, shrinkage-compensated cementitious structural 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 additives, and polymer modifiers, providing high mechanical performance, durability, and dimensional stability.

Thanks to its high fluidity and self-leveling capability, Drykos® **Renov Col** enables the execution of poured or pumped castings 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.

TECHNICAL PERFORMANCE

Characteristic	Test method	Standard requirements	Performance
Bulk density	EN 1015-6		2190 kg/m ³
Pot life			~ 60 minutes
Minimum recommended thickness			4 cm
Maximum recommended thickness			30 cm
Mixing water			10-12%
Compressive strength after 24 hours	EN 12190		> 30 N/mm ²
Compressive strength after 7 days	EN 12190		> 60 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: > 80 N/mm ²
Flexural strength after 24 hours	EN 196-1		5 N/mm ²
Flexural strength after 7 days	EN 196-1		9 N/mm ²
Flexural strength after 28 days	EN 196-1		11 N/mm ²

Characteristic	Test method	Standard requirements	Performance
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 75 kN load	≤ 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 wet test Class II: > 40 units dry test Class III: > 55 units wet test	Class II
Water penetration under pressure (5 bar for 72 hours)	EN 12390-8		< 5 mm
Determination of thermal compatibility	EN 13687-1		≥ 2 N/mm ²
Capillary absorption	EN 13057	≤ 0.5 kg·h ^{0.5} /m ²	0.49 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



DRYKOS S.r.l.

Piazza Marconi n. 7 12100 - Tarantasca (CN) - Italia

Tel. + 39 0171 1874992 | E-mail info@drykos.com | Web www.drykos.com

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