



Drymix

Crystalline powder admixture for integral waterproofing of concrete

Drykos® **Drymix** is a crystalline powder admixture designed for the integral waterproofing of concrete and to increase its durability over time. The special chemical formulation reacts with cement hydration by-products and the moisture present in the cementitious matrix, generating a network of insoluble crystals that develops within the capillary porosity of the concrete. This crystallization process permanently seals the pores and micro-cavities within the conglomerate structure, reducing permeability and preventing the penetration of water and aggressive agents from any direction.

The system also maintains self-healing properties: in the presence of new water infiltration, the crystalline process can reactivate, contributing to the closure of micro-cracks up to approximately 0.5 mm.

Drykos® **Drymix** is compatible with all cements complying with the UNI EN 197 standard and with the main admixtures and additions commonly used in concrete production. Thanks to its application versatility, the product can be used effectively both in on-site operations and in prefabrication processes, and is also suitable for shotcrete applications.

TECHNICAL PERFORMANCE

Characteristic	Test method	Standard requirements	Performance
Chloride content	EN 480-10	≤ 0.1% by mass	≤ 0.1% by mass
Alkali content	EN 480-12		9.05% by mass
Compressive strength	EN 12390-3	≥ 85% of the control sample	≥ 85% of the control sample
Capillary absorption	EN 480-5	Tested for 7 days after 7 days of curing: test mixture ≤50% by mass of the control mixture. Tested for 28 days after 90 days of curing: test mixture ≤60% by mass of the control mixture	Tested for 7 days after 7 days of curing: test mixture ≤50% by mass of the control mixture. Tested for 28 days after 90 days of curing: test mixture ≤60% by mass of the control mixture
Air content in fresh concrete	EN 12350-7	≤ 2% by volume	≤ 2% by volume
Hazardous substances			See SDS
Chemical resistance	ASTM C267	Comparison with non-admixed mixture	No significant variation for continuous exposure to solutions with pH 3-11
Freeze-thaw cycles	ASTM C666	Comparison with non-admixed mixture	After 300 cycles, the concrete maintains high performance with reduced dimensional variation compared to the control mixture

Characteristic	Test method	Standard requirements	Performance
Rapid chloride permeability	ASTM C1202	Comparison with non-admixed mixture	Significant reduction in charge passed compared to the control mixture: -50%
Coating suitable for contact with water intended for human consumption	In accordance with Ministerial Decree 174/2004 and Legislative Decree 18/2023		Suitable

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

