



Drymix Ultra

Liquid crystalline admixture for integral waterproofing of concrete

Drykos® **Drymix Ultra** is a water-based liquid chemical admixture with crystalline action designed for integral waterproofing of concrete and to enhance its long-term durability.

The latter depends significantly on the microstructural properties of concrete, such as porosity and pore size, through which aggressive chemical agents that cause degradation can penetrate.

The active chemical components of Drykos® **Drymix Ultra** react with moisture and cement hydration by-products present in pores and capillaries, forming an insoluble crystalline complex that becomes an integral part of the cement matrix and acts as a waterproof barrier against water penetration from any direction.

Concrete treated with Drykos® **Drymix Ultra** also has self-healing properties: in the presence of water or moisture, the crystallization process reactivates over time, contributing to the closure of microcracks up to approximately 0.5 mm, further improving the durability of the structure.

Drykos® **Drymix Ultra** is compatible with all cements conforming to 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 effectively used in ready-mixed concrete and precast 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		0.06% 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
Density at 20°C	ISO 758:1976		1.12 ± 0.02 (g/ml)
Chemical resistance	ASTM C267	Comparison with non-admixed mixture	No significant variation for continuous exposure to solutions with pH 3-11

Characteristic	Test method	Standard requirements	Performance
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

