



Dryseal

Single-component, ready-to-use, high-penetration liquid waterproofing agent with crystallizing action for cementitious substrates

Drykos® **Dryseal** is a water-based, single-component liquid waterproofing agent with crystallizing action, designed for the restoration and protection of concrete and cementitious matrix substrates.

Applied superficially, preferably by spray, the product penetrates deep into the cementitious matrix and reacts chemically with the moisture present and the by-products of cement hydration. This reaction generates a needle-like crystalline formation that seals pores and micro-cracks, restoring the concrete in depth and increasing its durability.

Drykos® **Dryseal** is capable of sealing damp cracks up to 0.5 mm, significantly reducing the permeability of the concrete mix. The decrease in porosity limits the penetration of water, gases, and aggressive substances, improving the material's resistance to chemical attacks and freeze-thaw cycles.

A single application is sufficient to activate the waterproofing and restorative action. The product maintains its effectiveness over time thanks to its ability to reactivate in the presence of new moisture, establishing a permanent protection mechanism within the concrete mass. The combined use of Drykos® **Dryseal** and Drykos® **Dryseal Ultra** increases the durability of the concrete by combining their sealing and water-repellent properties.

CHARACTERISTICS

Drykos Technology

Drykos® crystallizing technology is distinguished by its efficiency through a chemical reaction with moisture and the by-products of cement hydration. This process generates, within the pores, capillaries, and cavities of the concrete, an insoluble crystalline complex that prevents water penetration. This complex becomes an integral part of the concrete mass, ensuring its resistance to water and aggressive chemical agents from any direction, promoting restoration and protection, imparting waterproof properties, and increasing its durability and service life.

Certifications



EN 1504-2

Products and systems for the protection and repair of concrete structures - Concrete surface protection systems



EN ISO 14025

Environmental labels and declarations - Type III environmental declarations



EN 15804

Sustainability of construction works - Environmental product declarations - Core rules for the product category



POTABLE WATER

Coating suitable for contact with water intended for human consumption in accordance with Ministerial Decree 174/2004 and Legislative Decree 18/2023.



DRYKOS S.r.l.

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Main characteristics

- Deep waterproofing through active crystallization
- Sealing of damp cracks up to 0.5 mm
- Significant reduction in concrete permeability
- Increase in the durability of the cementitious mix
- Protection against chemical attacks (sulfates, chlorides, CO₂)
- Improvement of resistance to freeze-thaw cycles
- Restorative action on structures subject to permanent moisture or infiltration
- Reactivation in the presence of new moisture, with permanent protection over time
- Simple and rapid application, even on existing structures
- Water-based single-component product with low environmental impact

Fields of use

- Restoration and protection of new or existing concrete structures subject to moisture or infiltration
- Foundations and slabs
- Retaining walls and underground structures
- Basements and technical rooms
- Underground parking lots
- Concrete tanks and reservoirs
- Structures subject to water infiltration or capillary rising damp
- Civil, industrial, and infrastructural works in aggressive environments

Green Technology & LEED

The product has a verified Environmental Product Declaration (EPD), compliant with ISO 14025 and EN 15804 standards. It contributes to credits in LEED v4/v4.1 sustainability protocols, specifically the MR credit – Building Product Disclosure and Optimization (EPD), supporting the achievement of up to 2 total points. The product is also consistent with the requirements of the Minimum Environmental Criteria (CAM) for construction, promoting environmental transparency of materials and use in sustainable public procurement.

Download EPD Certificate



SPECIFICHE TECNICHE

Packaging

1-liter bottle

5-liter canister

25-liter canister

Color

Colorless after application.

Appearance

Liquid.

Shelf life

12 months from production date.

Storage conditions

Store correctly in the original, sealed, intact packaging, protected from frost and direct sunlight, at temperatures between +15°C and +35°C. Higher temperatures could deteriorate the product. Low temperatures could cause partial crystallization of the product; in this case, shake the package manually and store it in warm environments.

APPLICATION DATA

Theoretical consumption

~ 0.2 L/m²

Coverage

~ 5 m² per 1 L

Thinner

Ready-to-use product.

Application temperature

Minimum +5°C | Maximum +35°C

APPLICATION INFO

Substrate preparation

The surfaces to be treated must be stable, clean, and free of contaminants that could compromise the correct application and penetration of the product, such as dust, dirt, grease, oils, residues of previous coatings, or surface treatments. Any loose, weak, or poorly adhering parts must be removed beforehand.

In the case of application on substrates isolated from direct contact with the ground or in the absence of natural moisture, the surface must be wetted to saturation with clean water before applying Drykos® **Dryseal**, avoiding any standing water or surface puddles.

Excess water must be completely removed and the surface left to dry until it reaches a damp but not wet surface condition. It is recommended to eliminate any standing water at least 24 hours before applying the waterproofing product.

Product preparation

Drykos® **Dryseal** is a ready-to-use product and must not be diluted. Thoroughly homogenize the product by manually shaking the sealed container before application.



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Application

Drykos® **Dryseal** must be applied in a single coat using a brush, roller, or low-pressure spray, ensuring an even distribution of the product over the entire surface to be treated.

During application, it is necessary to work the substrate thoroughly to favor the correct penetration of the product into the cementitious matrix and ensure continuous and uniform coverage. It is important to avoid accumulation or pooling of material on the surface, as any excess can lead to the formation of whitish powdery residues; if present, these residues can be removed by simple washing with water.

During application, the treated substrate may show temporary surface darkening, which disappears completely at the end of the drying process.

Drying times vary depending on environmental conditions and temperature: under standard conditions, it is necessary to wait 2–4 hours before allowing foot traffic. Vehicular traffic can be restored 48–72 hours after application. For structures intended for liquid containment such as tanks, reservoirs, or swimming pools, wait at least 7 days before filling.

Tool cleaning

Tools are cleaned with water immediately after use.

Other indications

- Do not apply on concrete with less than 7 days of curing
- Do not apply outdoors if precipitation is expected within the next 2 hours. In case of rain during application, stop the treatment immediately and resume only after the surface is completely dry
- Do not go over parts already treated, in order to avoid accumulation or excess material
- The product does not require post-application treatments; however, it is necessary to protect the surface from dripping and rain in the first 2–4 hours after installation
- The combined use of Drykos® **Dryseal** and Drykos® **Dryseal Ultra** increases the durability of the concrete by combining their sealing and water-repellent properties
- For anything not covered, contact Technical Support at +39 0171 1874992 or write to info@drykos.com.

TECHNICAL PERFORMANCE

Characteristic	Test method	Standard requirements	Performance
Freeze-thaw cycles with immersion in de-icing salts	EN 13581	Mass loss of the surface of the impregnated specimen must occur at least 20 cycles later than that of the non-impregnated specimen	31 cycles later than that of the non-impregnated specimen
Penetration depth	EN 14630	Class I: < 10 mm Class II: ≥ 10 mm	Class I: 1.7 mm
Water absorption and alkali resistance test for hydrophobic impregnation	EN 13580	Absorption ratio < 7.5%, compared to the untreated specimen Absorption ratio (after immersion in an alkali solution) < 10%	Water absorption: 4.8% Alkali absorption: 8.4%
Drying rate for hydrophobic impregnation	EN 13579	Class I: > 30%	Class I: 105%
Hazardous substances			Compliant with point 5.4
Water permeability under pressure	EN 12390-8	Comparison with non-admixed mixture	56% reduction (5 bar/72 h)



Characteristic	Test method	Standard requirements	Performance
Rapid chloride permeability	ASTM C1202	Comparison with non-admixed mixture	Significant reduction in passed charge compared to reference concrete: -65%
Coating suitable for contact with water intended for human consumption	In accordance with Ministerial Decree 174/2004 and Legislative Decree 18/2023		Suitable

ENVIRONMENT AND SAFETY

VOC

Solvent Free.

Safety

For information and advice on safety, handling, storage, and disposal, users of the product must refer to the most recent version of the Safety Data Sheet, which provides information on the physical, ecological, and toxicological characteristics of the product. If necessary, request the updated Safety Data Sheet by contacting Customer Service at +39 0171 1874992 or writing to info@drykos.com. Product compliant with the requirements of Regulation (EC) No. 1907/2006 (REACH) and Annex XVII, entry 47, and subsequent amendments and additions.

Use

Product for professional use.

WARRANTIES AND LEGAL NOTES

Should the product be defective, the liability of Drykos S.r.l. shall be limited solely to its replacement. The information and instructions in this technical data sheet regarding the application and end-use of the products are provided in good faith and reflect current scientific and technical knowledge; however, they do not constitute any guarantee or assumption of liability regarding the final outcome of the work involving their use. Given the variety of operating conditions and external factors beyond the control of Drykos S.r.l. during execution, it is the user's responsibility to verify the product's suitability for the specific application, assuming all risks and liabilities. Drykos S.r.l. reserves the right to modify the properties of its products at any time. Always refer to the most recent version of the product's technical data sheet. This edition cancels and replaces all previous versions. The latest updated technical data sheets are available on our portal at www.drykos.com.



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