



Drybond

Multifunctional additive for enhancing the mechanical and adhesion properties of cementitious mixtures for screeds, plasters, and thin-layer leveling compounds

Drybond is a single-component concentrated liquid additive based on special high-performance polymers dispersed in an aqueous vehicle, fully compatible with all types of mineral binders used in the construction industry. When properly dosed, **Drybond** significantly improves the technical and performance characteristics of cement-based mortars and mixtures, increasing adhesion, mechanical strength, impermeability, and system elasticity. The product also contributes to enhanced mixture durability by improving resistance to atmospheric agents and chemical aggressors. It is particularly suitable as an additive for preparing high-adhesion cement slurries. The action of the polymers contained in **Drybond** increases resistance to abrasion, cracking, and freeze-thaw cycles, enabling thin-layer applications. The product also reduces surface dusting and the water/binder ratio of mixtures while maintaining workability and promoting proper curing of the cementitious conglomerate.

CHARACTERISTICS

Certifications



Main characteristics

- Improves adhesion on substrates with low surface roughness
- Promotes proper and uniform curing of mortars and concretes
- Increases abrasion resistance
- Improves impermeability of the cementitious conglomerate
- Increases resistance to freeze-thaw cycles
- Improves resistance to penetration of oils, greases, and surface contaminants
- Increases mechanical performance, both in compression and flexure
- Enables the production of cohesive, thixotropic, and easily workable mixtures
- Reduces hygroscopic shrinkage and crack formation



Fields of use

- Preparation of traditional and premixed plasters
- Application of cement-based rendering coats with high bonding capacity
- Preparation of cement mortars for restoration and repair interventions
- Surface finishes for concrete products and precast elements
- Bedding mortars for tile or slab cladding and flooring
- High-performance cement screeds
- Cement mortars for finishing surfaces subject to heavy abrasion, applied using the “fresh-on-fresh” system, such as industrial flooring, ramps, and channels
- Production of high-adhesion cement slurries

SPECIFICHE TECNICHE

Packaging

10 L canister

25 L canister

Color

White.

Appearance

Liquid.

Shelf life

12 months from production date.

Storage conditions

Store properly in the original, sealed, intact packaging, protected from frost and direct sunlight exposure, at temperatures between +10°C and +35°C. Higher temperatures may deteriorate the product. Low temperatures may cause partial crystallization of the product; if this occurs, shake the container manually and store in warm environments.

APPLICATION DATA

Theoretical consumption

Depending on the dilutions applied.

Coverage

Depending on the dilutions applied.

Thinner

Water.

Application temperature

Minimum +5°C | Maximum +40°C

APPLICATION INFO

Substrate preparation

Surfaces to be treated must be solid, cohesive, clean, and free of dust, oils, greases, dirt, residues from previous coatings or surface treatments that could compromise proper adhesion and penetration of the product. Any friable, degraded, or imperfectly adhered parts must be removed prior to application of mortars or mixtures containing **Drybond**.



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Product preparation

Thoroughly homogenize the product by manually shaking the sealed container before use.

Dilute **Drybond** with clean water according to the dilution ratio indicated in the following table. The water-polymer mixture thus obtained must be used as mixing liquid, adding it gradually to the product to be mixed. The mixture must be blended using a low-speed electric drill for 2–3 minutes until a homogeneous, fluid, lump-free mixture suitable for the intended application is obtained.

Dilution

Use	Product quantity	Acqua	Cementitious product
Repair mortar < 10 mm	3 liters		100 kg
Repair mortar > 10 mm	2 liters		100 kg
Screed	2 liters		100 kg
Waterproof plaster	1.5 liters		100 kg
Bonding slurry	1 liter	1 liter	3 kg

Tool cleaning

Tools are cleaned with water immediately after use.

Other indications

- Do not apply the product on frozen substrates, during thawing, or when there is a risk of frost within 24 hours after application.
- Protect treated surfaces from rapid drying caused by direct sunlight, wind, or high temperatures.
- Use of the product in high dosages may result in delayed setting and hardening times of the cement binder.
- Diluted product must be stored exclusively in the original container, tightly closed, protected from sunlight and heat sources, and used within a maximum of 5 days from dilution.
- The product is susceptible to frost.
- Do not use the product undiluted as a primer or bonding bridge; the product must always be mixed with cement or cement-based mixtures.
- Do not apply at temperatures below +5°C or above +40°C.
- For uses not expressly indicated or for further information, contact Drykos Technical Support Service at +39 0171 1874992 or write to info@drykos.com.

TECHNICAL PERFORMANCE

Characteristic	Test method	Standard requirements	Performance
Density			1.01 kg/L
Solubility in water			Insoluble but miscible in all proportions
pH	ISO 4316		7.5 ± 1
Chloride content	EN 480-12		< 0.1% by mass
Alkali content	EN 480-12		0.06% by mass



Characteristic	Test method	Standard requirements	Performance
Compressive strength	EN 12390-3	> 85% of control sample	> 85% of control sample
Capillary absorption	EN 480-5	7d-7d $\leq$ 50% w/w 28d-90d $\leq$ 60% w/w	Tested for 7 days after 7 days of curing: test mixture $\leq$ 50% by mass of control mixture. Tested for 28 days after 90 days of curing: test mixture $\leq$ 60% by mass of control mixture
Air content in fresh concrete	EN 12350-7	< 2% by volume	< 2% by volume
Hazardous substances	EN 934-2		See SDS

ENVIRONMENT AND SAFETY

VOC

Product not intended for uses covered by Directive 2004/42/EC.

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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