



Dryfibers

Multifilament Polypropylene Fibers for Concrete

Drykos® **Dryfibers** are high-performance auxiliary polypropylene microfibers of the multifilament type, specifically designed for addition to various cementitious mixtures, such as concrete, mortars, plasters, and screeds.

The incorporation of Drykos® **Dryfibers** into the mix effectively counteracts the formation of plastic shrinkage cracks, improving the control of microcracks during the early stages of setting and curing of the mixture. The presence of the microfibers also provides significant benefits in terms of ductility and cohesion of the mix, contributing to increased impact resistance, resistance to freeze-thaw cycles, and overall impermeability of the hardened material. Drykos® **Dryfibers** improve the volumetric stability of the mixture, promoting a more uniform distribution of internal stresses and greater long-term durability of the completed works.

The product is available in three different lengths: 6 mm, 12 mm, and 18 mm, to allow optimal selection based on the type of application and required performance.

CHARACTERISTICS

Main characteristics

- Effectively counteract the formation of plastic shrinkage cracks
- Improve the ductility and cohesion of the cementitious mixture
- Increase impact resistance
- Improve resistance to freeze-thaw cycles
- Contribute to increased overall impermeability of the hardened material
- Promote a more uniform distribution of internal stresses
- Improve the durability and volumetric stability of works over time
- Do not alter the workability of the mix when correctly dosed

Fields of use

- Structural and non-structural concrete
- Cementitious mortars
- Traditional and premixed plasters
- Cementitious screeds
- Industrial and civil castings
- Precast concrete elements



SPECIFICHE TECNICHE

Packaging

L 6 mm - Water-degradable bag of 1 kg -
Box of 12 bags

L 12 mm - Water-degradable bag of 1 kg -
Box of 12 bags

L 18 mm - Water-degradable bag of 1 kg -
Box of 12 bags

Color

White.

Appearance

Filaments.

Shelf life

The product has no storage limitations if correctly stored.

Storage conditions

Store correctly in the original, sealed, intact packaging, protected from moisture, frost, and direct sunlight exposure, at temperatures between +5°C and +35°C.

APPLICATION DATA

Theoretical consumption

~ 1 kg per m³ of concrete.

Coverage

1 m³/kg of fibers.

APPLICATION INFO

Product preparation

Drykos® **Dryfibers** are supplied ready to use and require no preliminary preparation.

The microfibers are packaged in water-degradable bags, which can be inserted directly into the concrete mixer or truck mixer during the mixing phase, without the need for opening, promoting uniform distribution of the product and reducing operational time on site.

Application

Drykos® **Dryfibers** must be added directly to the cementitious mixture during the mixing phase. It is recommended to introduce the microfibers into the mixer together with the aggregates or binder, before adding the mixing water, in order to ensure uniform distribution within the cementitious mixture.

Mixing must be carried out with the concrete mixer drum at full speed for at least 5–6 minutes, verifying the complete dispersion of the microfibers and avoiding the formation of agglomerates.

In the case of adding Drykos® **Dryfibers** to a truck mixer containing already-prepared concrete, introduce the microfibers directly through the loading opening, with the drum rotating, and continue mixing while maintaining rotation at mixing speed for at least 5 minutes, in order to ensure uniform dispersion of the microfibers within the concrete. Before placement, visually verify the homogeneity of the mix.



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Tool cleaning

Clean tools with water immediately after use.

Other indications

- For matters not covered, contact Technical Support at +39 0171 1874992 or write to info@drykos.com.

TECHNICAL PERFORMANCE

Characteristic	Test method	Standard requirements	Performance
Classification	EN 14889-2		Class I
Polymer type	EN 14889-2		Polypropylene
Form	EN 14889-2		Multifilament
Dryfibres 60 - Length	EN 14889-2		6.0 mm
Dryfibres 60 - Fiber diameter	EN 14889-2		0.035 mm
Dryfibres 60 - Effect on concrete consistency with 1 kg/m ³ of fibers: Vebe time	prEN 14854-1		1 sec
Dryfibres 60 - Linear mass	EN 14889-2		8.75 dTex
Dryfibres 60 - Tenacity	EN 14889-2		22.71 cN/tex
Dryfibres 120 - Length	EN 14889-2		12 mm
Dryfibres 120 - Fiber diameter	EN 14889-2		0.027 mm
Dryfibres 120 - Effect on concrete consistency with 1 kg/m ³ of fibers: Vebe time	prEN 14854-1		2.5 sec
Dryfibres 120 - Linear mass	EN 14889-2		5.05 dTex
Dryfibres 120 - Tenacity	EN 14889-2		47.99 cN/tex
Dryfibres 180 - Length	EN 14889-2		18 mm
Dryfibres 180 - Fiber diameter	EN 14889-2		0.035 mm
Dryfibres 180 - Effect on concrete consistency with 1 kg/m ³ of fibers: Vebe time	prEN 14854-1		1.3 sec
Dryfibres 180 - Linear mass	EN 14889-2		8.75 dTex
Dryfibres 180 - Tenacity	EN 14889-2		22.71 cN/tex
Durability	EN 14889-2		Durability depends on the type of concrete incorporating the fibers
Release of hazardous substances	EN 14889-2	none	see SDS



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ENVIRONMENT AND SAFETY

Safety

The product is classified as an article and, in accordance with Regulation (EC) No. 1907/2006 (REACH), does not require the preparation of a Safety Data Sheet. During handling and use operations, however, the use of appropriate personal protective equipment, such as gloves and protective eyewear, is recommended, along with compliance with the safety procedures established in the workplace. The product contains microplastics. The microparticles of synthetic polymers supplied fall within the scope of entry 78 of Annex XVII of Regulation (EC) No. 1907/2006. The use of the product is permitted exclusively in industrial settings, in accordance with derogation 4a, and provided that, in the intended end use, the microparticles are permanently incorporated into a solid matrix, as provided for by derogation 5c. Avoid dispersing the product into the environment. In case of accidental spillage, collect the material and clean the affected area. Do not disperse wash water into the environment. Dispose of any waste in accordance with applicable local and national regulations.

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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