



Dryfibers 540

Stranded monofilament polyolefin macro-fibers, structural for industrial floors

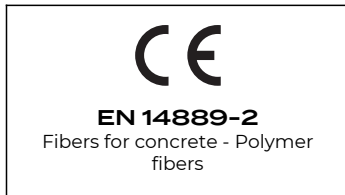
Drykos® **Dryfibers 540** is a high-performance stranded polyolefin structural macro-fiber designed for the widespread three-dimensional reinforcement of cementitious conglomerates. The product is specifically developed for the creation of continuous concrete surfaces, with particular reference to “exposed” applications where high mechanical performance and effective cracking control are required.

Due to its dimensional characteristics, consistency, and surface finish, Drykos® **Dryfibers 540** is particularly suitable for industrial concrete flooring and precast applications.

Subject to sizing and approval by the structural designer, the product can also be used as an alternative to traditional steel reinforcement, contributing to the simplification of laying operations and the rationalization of structural reinforcement.

CHARACTERISTICS

Certifications



Main characteristics

- Enables widespread three-dimensional structural reinforcement of concrete
- Improves the mechanical behavior of the conglomerate, particularly in tension and bending
- Promotes cracking control and uniform stress distribution
- Improves post-cracking behavior and energy absorption capacity
- Reduces the risk of localized cracking and failure, even at corners and critical areas
- Suitable for “exposed” surfaces, thanks to a finish designed to limit aesthetic impact
- Can allow for the reduction or replacement of traditional steel reinforcement, subject to structural verification
- Improves the overall durability of concrete floors and manufactured products



Fields of use

- Industrial concrete flooring
- Continuous concrete surfaces, including “exposed” finishes
- Precasting of concrete elements
- Widespread structural reinforcement of cementitious conglomerates
- Cast-in-place for civil and industrial applications
- Concrete foundation mats and slabs

SPECIFICHE TECNICHE

Packaging

L 54 mm - 1 kg hydro-degradable bag - Box of 10 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, at temperatures between +5°C and +35°C.

APPLICATION DATA

Theoretical consumption

Indicatively, average consumption ranges between 1 and 2 kg per m³ of concrete, unless otherwise indicated by the structural designer or project specifications.

APPLICATION INFO

Product preparation

Drykos® **Dryfibers 540** are supplied ready to use and do not require any preliminary preparation.



DRYKOS S.r.l.

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Application

In the case of precasting or use in batching plants equipped with a pre-mixer, Drykos® **Dryfibers 540** can be added directly into the mixing chamber or, alternatively, onto the aggregate conveyor belt.

The addition of fibers must take place exclusively after the aggregates have been loaded into the mixer to promote correct dispersion within the conglomerate.

The product can also be introduced directly into the drum of the truck mixer once it has been loaded with all other concrete components. In this case, after adding the fibers, continue mixing by keeping the drum rotating at mixing speed for at least 1 minute for every m³ of concrete transported, verifying the complete and uniform distribution of the macro-fibers.

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 II
Polymer type	EN 14889-2		Polypropylene
Form	EN 14889-2		Macro filament
Length	EN 14889-2		54 mm
Fiber diameter	EN 14889-2		0.48 mm
Effect on concrete consistency with 5 kg/m ³ of fibers	EN 14889-2		Vebè Class V3
Effect on concrete strength with 5 kg/m ³ of fibers	EN 14889-2		2.1 N/mm ² CMOD=0.5 mm
Effect on concrete strength with 5 kg/m ³ of fibers	EN 14889-2		2.3 N/mm ² CMOD=0.35 mm
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, it is nevertheless recommended to use appropriate personal protective equipment, such as protective gloves and goggles, and to comply with the safety procedures established at the workplace.

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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