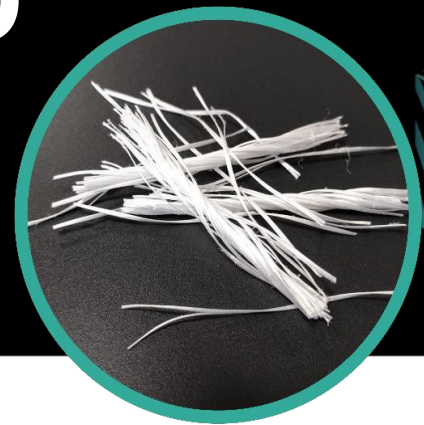


# DRYFIBERS 540

## CERTIFICATIONS AND STANDARDS

EN 14889-2:2006



## PRODUCT DESCRIPTION

Dryfibers 540 is a high-performance trifoliated polyolefin macrostructural fiber, with a length of 54 mm, specifically designed for creating continuous concrete surfaces, and it can also be used as a replacement for traditional steel reinforcement. The texture, length, and surface finish of Dryfibers 540 have been carefully developed for visible applications, such as industrial concrete flooring.

## FEATURES

Adding Dryfibers 540 to the concrete mixture enhances the structure's tensile and flexural strength, reduces the risk of fractures and spalling at corners and edges, and significantly minimises shrinkage cracking during the initial hours of concrete curing. The unique shape and consistency of Dryfibers 540 allow it to not interfere with the mechanical troweling process typically used for industrial concrete flooring, ensuring a smooth surface finish. Additionally, using Dryfibers 540 as a substitute for traditional steel reinforcement provides substantial material and installation cost savings (apart from being lighter, more eco-friendly, and safer than welded wire mesh).

## AREA OF APPLICATIONS

Suitable for industrial flooring, including as a substitute for steel mesh reinforcement. Also used in precast concrete and for widespread three-dimensional reinforcement of cementitious mixtures.

## DOSAGE

1 kg to 5 kg per cu.m

## APPLICATION METHOD

Add the fibers to the concrete mixture during mixing. Mix with the drum of the concrete mixer at full speed for at least one minute per cubic meter of concrete. The dosage, depending on the application, typically ranges from 1 to 5 kg/m<sup>3</sup>. For industrial flooring, it is not recommended to exceed a dosage of 3 kg/m<sup>3</sup>.

## HEALTH AND SAFETY

Remember not to disperse the product and its packaging into the environment. The addition of fibers may slightly alter the rheology of the cementitious mixture. During the construction of industrial floors, particularly during the pouring and troweling phase with mechanical helical trowels, be aware that the curing rate of fiber-reinforced concrete may be slightly accelerated.

## STORAGE

Store the product in its original packaging in a cool, dry place, protected from frost and direct sunlight. Avoid exposure to moisture.

## PACKAGING

Available in Hydro degradable bag, 1kg.

## TECHNICAL SPECIFICATIONS

<b>Diameter</b>	0.48 mm
<b>Flammability</b>	Non-Flammable
<b>Class</b>	V3
<b>Young Modul</b>	5.37 GPa
<b>Number of filaments</b>	130.000 nr/kg
<b>Tensile strength/resistance to traction</b>	516.9 MPa
<b>Auto ignition temperature</b>	>400 °C