TECHNICAL DATA SHEET

CE

Chryso
Concrete
Solutions

07/10/2026

Adfil®Syntec 12

Synthetic micro-fiber
Monofilament Fibers

DESCRIPTION

Adfil®Syntec 12 is a new generation polypropylene monofilament micro fibre. Its unique technology at an ultra-thin diameter result in the highest level in plastic shrinkage crack control available with ease of workability.

Adfil®Syntec 12 is not recommended to increase joint spacing or as a replacement to structural reinforcement, but it is a very good alternative to mesh reinforcement that is used to control plastic shrinkage and plastic settlement cracking.

BENEFITS

- Provides plastic shrinkage and plastic settlement crack control in pre-hardening stage.
- Slows down bleeding, reduces permeability and avoids spalling when removing the form.
- Increases impact, abrasion and chemical resistance.
- Use in freeze thaw and passive fire protection applications.

APPLICATION

Adfil®Syntec 12 is recommended for all concrete mixes where crack control caused by plastic shrinkage, plastic settlement, thermal expansion and contraction in concrete is desirable.

INDICATIVE INFORMATION

Product Nature	100% virgin polypropylene
Color	Transparent
Apparent density	0,905
Fiber length	12 mm
Ignition temperature	360 °C
Equivalent Diameter	28 µm
Tensile strength	300 MPa
Melting point	165 °C

METHOD OF USE

The dosage of Adfil®Syntec 12 is 0.6 - 0.9 kg/m^3 for general concrete applications. The optimum dosage can only be established after trial tests, considering local conditions, materials and specification requirements.

Adfil®Syntec 12 can be added directly into the truck mixer, followed by rapid mixing for 5 minutes. When adding fibres into a cementitious product, careful attention must be taken in the batching and mixing procedure to achieve optimum results. For further details on the recommended mixing instructions, please consult a member from Chryso team.

PRECAUTIONS

- Adfil®Syntec 12 fibres are not recommended as a replacement to structural reinforcement.
- Fibres must be stored on a clean surface in dry conditions, undercover and away from possibility of damage.

SAFETY

Adfil®Syntec 12 is not considered dangerous to handle.
Prior to any use, please read carefully the Safety Data Sheet (SDS).

The information contained in this document is given to the best of our knowledge and is the result of extensive and controlled testing. However,it cannot under any circumstances be considered as a warranty involving our liability in the case of misuse. Tests should be con ducted before the product is used to ensure that the methods and conditions of use of the product are satisfactory. Our specialists remain at the disposal of customers if they require help with the application of the product for their specific needs.
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