

# 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

## PACKAGING

- 0.6kg or 0.9kg water soluble bags

## METHOD OF USE

The dosage of Adfil® Syntec 12 is 0.6-0.9 kg/m<sup>3</sup> 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.

## NORMS & REGULATIONS

- Conforms to ASTM C 1116 and BS EN 14889 la
- Plastic shrinkage reduction in accordance with ASTM C1579-13
- Conforms to CE marking EN 14889-2:2006 la

## SAFETY

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