

Technical data sheet

CHRYSO® Fibrin XT

Monofilament Polypropylene Fibre

Description

CHRYSO® Fibrin XT is a monofilament polypropylene fibre that reduces the occurrence of plastic shrinkage and plastic settlement cracking, whilst enhancing the surface properties and durability of hardened cementitious products.

The fibres are coated with surfactant to improve initial dispersion. These fibres are specifically designed to be used as an alternative to Air Entraining Agents. (AEA). Fibrin XT fibres are extremely fine and although slightly visible at the plastic stage, are not readily seen on the hardened surface.

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Standards

CHRYSO® Fibrin XT conforms to EN 14889-2:2006.

Advantages

- Reduced plastic shrinkage cracking.
- Reduced plastic settlement cracking.
- Reduced bleeding.
- Reduced water and chemical permeability.
- Improved freeze / thaw resistance.
- Increased abrasion resistance.
- Increased impact resistance.
- Alternative to crack control mesh with the appropriate design.
- Alternative to air entraining agent (AEA).

Physical and chemical properties

- Fibre type: Micro
- Length: 13/19mm
- Equivalent Diameter 22 µm
- Aspect ratio: 545/864
- Tensile strength: 380mPa
- Absorption: nil
- Specific gravity: 0.905

Application guidelines

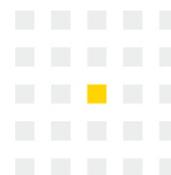
Use

- Internal Floor Slabs.
- Bridges.
- Agricultural Areas.
- Water Retaining Structures.
- Repair Materials.
- Road Pavements.
- Runway Aprons.
- External Hard Standings.
- Precast Concrete.
- Shotcrete / Guniting.
- Sea Defence Work.
- Pattern Imprinted Concrete.
- Extruded Concrete.

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Directions

Dispensing/mixing

- CHRYSO® Fibrin XT fibres should ideally be added in the mixer, although in some instances this may not be possible and addition at site will be the only option.
- If mixing at a dry batch plant, fibres should be the first constituent in the truck along with one third of the mixing water.
- After all the other ingredients have been added, including the remaining mixing water, the concrete should be mixed for a minimum of 70 revolutions at full speed to ensure uniform fibre dispersion.
- In the case of site mixing, a minimum of 70 drum revolutions at full speed should take place.

Storage

- CHRYSO® Fibrin XT must be stored on a clean surface, in dry conditions, under cover and away from the possibility of damage.

Packaging

- 600g water-dispersible.

Health and safety

- For more information, please refer to the material safety data sheet.

Disclaimer: The information contained in this document is given to the best of CHRYSO's knowledge and is the result of extensive testing. However, this document will not under any circumstances be considered as a warranty involving CHRYSO's liability in case of misuse. Tests should be carried out before any use of the product to ensure that the methods and conditions of use of the product are satisfactory. CHRYSO specialists are at the disposal of the users in order to help them with any problems encountered.