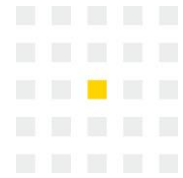


Technical data sheet

CHRYSO® Durus S400

Macro Synthetic Fibres



Description

CHRYSO® Durus S400 is a macro synthetic fibre that is extruded, embossed and then specifically cut into the lengths required for each concrete application. **CHRYSO® Durus S400** has been designed to replace traditional steel reinforcement with the benefits of increased performance, reduced costs and improved health and safety conditions. It will enhance the toughness of the concrete and alleviate the need for steel mesh when used with the appropriate design and at the recommended dosage.

- **CHRYSO® Durus S400** is used in ready mixed, precast and sprayed concrete in both above and in underground applications.
- The embossment improves the bond between the fibre and the concrete resulting in improvements to the residual flexural strength of the concrete.

Standards

CHRYSO® Durus S400 complies to BS EN 14889-2 : 2006 (EC Certificate of Conformity).

Advantages

- Offers a 3-dimensional reinforcement system.
- Increases the residual flexural strength of the concrete.
- Reduces construction time.
- Provides an alternative to steel reinforcement.
- Cannot be misplaced.
- Easier and safer to handle than steel, eliminating need for cutting, fixing and placing of steel mesh.
- May eliminate the need for concrete pumps and cranes.
- Does not rust or corrode.
- Reduces wear on pumps and hoses when concrete pumps are used.
- Reduces carbon footprint.

Physical and chemical properties

- Fibre type: Embossed
- Length: 45mm
- Equivalent Diameter 0.9mm
- Aspect ratio: 50
- Tensile strength: 465mPa
- Elastic Modulus: 3350mPa
- Absorption: nil
- Specific gravity: 0.905

Application guidelines

Use

- Internal floor slabs.
- External hard standings and pavements.
- Precast concrete elements.
- Agricultural areas.
- Marine / Coastal defense concrete.
- Shotcreting applications.

Directions

Dispensing/mixing

- The fibre is best dispersed when added to a forced action pan mixer or equivalent prior to discharging the concrete into a truck.
- For additional information please contact a **CHRYSO** representative.

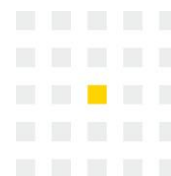
Storage

- **CHRYSO® Durus S400** must be stored on a clean surface, in dry conditions, under cover and away from the possibility of damage.

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Packaging

- 4kg 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.