

## CHRYSO®Fibre S50 S

Synthetic macro-fiber  
for structural reinforcement



### DESCRIPTION

**CHRYSO®Fibre S50 S** is a synthetic fiber, made with a mix of two high tensile strength raw materials designed for use in concrete.

**CHRYSO®Fibre S50 S** is an alternative to welded wire fabric (costs and laying down time savings).

**CHRYSO®Fibre S50 S** can be used as structural fiber for slab as a replacement in full or in part of the usual steel reinforcement dependent on the recommendation from a structural design calculations.

### BENEFITS

- **CHRYSO®Fibre S50 S** improves the following characteristics of concrete:
  - ductility after shrinkage,
  - resistance to impact,
  - resistance to shrinkage and bleeding.
- **CHRYSO®Fibre S50 S** spreads evenly in concrete, thus creating a multidirectional network of reinforcement. An advantage is that it prevents any risk of corrosion, compared to metallic fibers.

### PACKAGING

- Fiber dose box 1kg

### FIELDS OF APPLICATION

**CHRYSO®Fibre S50 S** can replace, in most cases, mesh or metallic fibers:

- Precast elements
- Vaults
- Man holes
- Slabs
- Shotcrete
- Pumped concrete
- All cement types
- Cement screed
- etc

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## INDICATIVE INFORMATION

<b>Product Nature</b>	mix of polypropylene and polyethylene
<b>Color</b>	White
<b>Specific gravity</b>	0,920 ± 0,010
<b>Flash Point</b>	>= 590 °C
<b>Fiber length</b>	50 mm
<b>Tensile strength</b>	600 MPa
<b>Elasticity module</b>	5 GPa
<b>Fusion Point</b>	160 °C
<b>Chemical resistance</b>	High

## METHOD OF USE

- This product may cause loss of workability which can be compensated by using an appropriate plasticizing or superplasticizing admixture.
- This product is compatible with any CHRYSO® admixture.
- The optimum dosage of this product can only be established after trial tests, taking into account the rheological characteristics and the required mechanical performances of the concrete.

**CHRYSO®Fibre S50 S** can be incorporated into concrete with a dosage from 1 to 8 kg/m<sup>3</sup>.

**Mixer:**

**CHRYSO®Fibre S50 S** can be incorporated with aggregates. A time of dry mixing (30 seconds) is recommended.

**Truck:**

**CHRYSO®Fibre S50 S** can be incorporated in concrete, with a mixing time of 10 minutes approximately.

## PRECAUTIONS

- Store in a well ventilated location.

**Compatibility:**

**CHRYSO®Fibre S50 S** is compatible with all types of Portland cement, class C and F fly ash, slag, micro silica, steel fibers and approved air entraining admixtures.

## SAFETY

**CHRYSO®Fibre S50 S** is not considered dangerous to handle. Prior to any use, please read carefully the Material Safety Data Sheets.