

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

Product Nature	mix of polypropylene and polyethylene
Color	White
Specific gravity	0,920 ± 0,010
Flash Point	>= 590 °C
Fiber length	50 mm
Tensile strength	600 MPa
Elasticity module	5 GPa
Fusion Point	160 °C
Chemical resistance	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/m³.

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.