

## CHRYSO®Fibrin 23 D

Synthetic micro-fiber  
Monofilament Fibers



### DESCRIPTION

**CHRYSO®Fibrin 23 D** is a new generation synthetic polypropylene microfiber for reinforcement of concrete.

CHRYSO's unique technology combines ultra thin diameter with ultra high strength fibers, resulting in the highest level of plastic shrinkage crack prevention available.

Hundreds of millions of high tensile, high modulus filaments per dose of **CHRYSO®Fibrin 23 D** create an extremely dense, three dimensional network in any cementitious application.

### BENEFITS

- **CHRYSO®Fibrin 23 D** has a good adherence to the cement paste, which increases strain capacity.
- It slows down bleeding, reduces permeability and avoids spalling.
- It decreases the risk of cracking during the pre hardening stage. This means the damaging effects of plastic shrinkage are eliminated.
- It improves abrasive resistance, resistance to impacts (joints, angles), resistance to frost/defrost cycle, fire resistance and resistance to chemical attack.
- **CHRYSO®Fibrin 23 D** is not 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. This reduces cost and construction time while making the construction process easier.

### PACKAGING

- 600 g water-dispersible sachet

### FIELDS OF APPLICATION

**CHRYSO®Fibrin 23 D** is recommended for all concrete and mortar mixes where reduction of cracking caused by plastic shrinkage, plastic settlement, thermal expansion and contraction in concrete is desirable. It also contribute to reduce water migration and to increase the surface resistance to impacts, abrasion and shattering.

- All cement types
- Precast
- Slabs
- Shotcrete
- High performance Concrete - Very High Performance Concrete - Ultra High Performance Concrete
- High durability concrete
- Cement screed
- Pumped concrete
- Self levelling concrete
- Man holes
- etc

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## INDICATIVE INFORMATION

Product Nature	Polypropylene fibers
Color	White
Lifetime	24 months
Specific gravity	0,910 ± 0,000
Fiber length	12 mm
Nominal diameter	18 µm
Tensile strength	557 MPa
Elasticity module	4 GPa
Fusion Point	160 °C
Chemical resistance	Forte

## 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.
- The dosage of **CHRYSO®Fibrin 23 D** is 600 to 900 gm per m<sup>3</sup> of concrete.
- **CHRYSO®Fibrin 23 D** is packed in pre measured, ready for concrete degradable bags, designed to be introduced into the mix at any time before, during or after the other ready mixed concrete materials. Please follow proper mixing procedures.
- **CHRYSO®Fibrin 23 D** can be added directly into the truck mixer, followed by rapid mixing for 5 minutes.
- 1 dose sachet per m<sup>3</sup> of concrete to be fiberized. This represents approximately 180 million fibers / m<sup>3</sup> for a dose of 600 gm. and approximately 273 million fibers / m<sup>3</sup> for a dose of 910 gm.

## PRECAUTIONS

- Store in a well ventilated location.

### Compatibility:

- **CHRYSO®Fibrin 23 D** is compatible with all types of Portland cement, class C and F fly ash, slag, micro silica, steel fibers and approved air entraining admixtures.
- **CHRYSO®Fibrin 23 D** is not a structural reinforcement of concrete.

## NORMATIVE AND REGULATORY INFORMATION

- This product conforms to CE marking. The appropriate declaration can be found on our internet site.

## SAFETY

**CHRYSO®Fibrin 23 D** is not considered dangerous to handle. Prior to any use, please read carefully the Material Safety Data Sheets.