



PRODUCT No. 1450

## **FIBERMESH 6130**

### **FIBRES FOR REDUCING CONCRETE PLASTIC CRACKING**

#### **DESCRIPTION**

**FIBERMESH** are fibrilated and primed polypropylene fibres, with 19 mm length and 10 µm diameter, which are added to mortar or concrete when it's necessary to reduce shrinkage cracks in plastic concrete. The fibres are primed in order to improve the wetting and dispersion in the cement paste and increase the contact and adherence capacity between fibres and concrete in its hardened state.

#### **CHARACTERISTICS**

- Compatible with concrete or mortar formulated based on UNE cements.
- Control shrinkage
- Reduces the developing of micro-cracks.
- Replace wire-mesh (anti-cracks)
- Reduce expansion joints

#### **METHOD OF USE**

It's used adding 1 bag of product per cubic meter of concrete or mortar, that is, 0,9 kg/m<sup>3</sup> dose. It's added as any other component, mixing while dry for 2-4 minutes, adding the water afterwards; or, when the mass is already prepared, add the fibres to the concrete mixer and keep mixing for 5 minutes at 12 rpm speed, in order to assure homogenous mixture.

#### **SPECIFICATIONS**

Specific weight .....	0.91 g/cm <sup>3</sup>
Length .....	19 mm
Melting point.....	160°C - 170°C
Flash point .....	593°C
Ductility registry.....	Low
Electric conductivity .....	Low
Acid and salt resistance .....	High
Tensile strength .....	0.56 - 0,77 KN/mm <sup>2</sup>
Elasticity rate (Young module) .....	3.5 KN/mm <sup>2</sup>
Alkalis and chemicals resistance .....	Good

#### **SPECIAL RECOMMENDATIONS**

- Minimum cement doses of 300 kg/m<sup>3</sup> will be used.
- Aggregate to be used for concrete will be between 10 and 25 mm.
- The most suitable slab thickness is between 15 and 35 cm (especially when there's no specific study on the soil underneath)
- In pre-cast, **FIBERMESH** will be added to the dry mass, mixing for 2-4 minutes before adding water.
- This product can not replace any reinforcement or structural mesh.



## **USES**

- Floor slabs
- Concrete on floor slabs and compression coats.
- Floor raising (minimum 3 cm)
- Pre-cast (kerbstones, pipes, framework, etc.)

## **ADVANTAGES**

- Reduces plastic shrinkage in concrete and mortars, being up to 7 times less than without fibres.
- Reduces water absorption and permeability.
- Increases impact cracking resistance.
- Uniform distribution of fibres against the difficulty of placing wire-mesh when applying concrete.
- Improves machinability of concrete and avoids grout bleeding.
- Allows adding less amount of water to the mass, since excess could cause segregation.
- Avoids wire-mesh handling and crane movements, with unnecessary manpower costs.

## **PACKAGING**

In cartons containing 12 bags of 0,9 kg each.

It should be stored on a clean and dry surface, under roof.

On bags and cartons one can see name of product and manufacturer, batch number, as well as BBA identification and certificate number.

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