

DUROFIBRE



Polypropylene fibers 6 & 12mm long



■ PROPERTIES

DUROFIBRE, polypropylene fibers (PP), constitute an improving additive for concrete, cement and lime mortars.

Their addition creates a three dimensional matrix, which functions as reinforcement preventing the formation of hairline cracks (cracking) during the curing process.

The addition of fibers to lime and cement mortars or to concrete, improves its flexibility, impact and surface abrasion resistance and its cohesion.

They combine perfectly with DUROSTICK improving emulsions and plasticizers. They are not affected by alkalis or acids. Their addition during the concrete homogenization process, will not damage the internal parts of any mixing and pumping equipment.

Certified per EN 14889-2.

■ APPLICATIONS

The addition of DUROFIBRE 12mm is essential for shotcrete or common concrete containing aggregates with a grain size larger than 10mm:

In shotcrete and regular concrete: add fibers at the construction site in the mixing barrel, to give better cohesion, without reducing the workability of the mixture. The addition of the product contributes to the reduction of boom bounce (and mortar loss) as well as air bubbles and helps to create thicker coats. DUROFIBRE fibers are important for applications on roof concrete slabs that will be covered with clay roofing tiles.

In base coat plasters, add during mixing, and avoid plaster detachments. Even applications without reinforcing mesh are safeguarded from small excavating machinery vibrations (working in adjacent areas) or from minor earthquakes.

In building mortars: add to traditional or premixed building mortars for brick or cement block wall surfaces to increase mortar strengths and prevent cracking from pressure and vibrations.

In cement screeds and industrial floors: their addition will not affect the workability and plasticity of the mixtures. They will however increase mixture strengths and reduce concrete/mortar separation.

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The addition of DUROFIBRE 6mm is necessary if the aggregates are less than 10mm and mainly in thin coats of standard or traditional cement mortars.

■ USE

Add DUROFIBRE during the mixing process of concrete or mortars and continue mixing for at least five minutes.

■ ATTENTION

Their addition does not replace the use of reinforcing steel (rebars).

■ SAFETY DIRECTIONS

The product needs no hazard labeling based on current European and National legislation. However, it is recommended to keep away from the reach of children. If swallowed, seek immediate medical advice immediately, showing the packaging or label.

■ CONSUMPTION

6mm: From 600-900gr/m³ of concrete or mortar.
12mm: From 900-1.200gr/m³ of concrete or mortar.
Depending on the demand of the reinforcement.

■ STORAGE

Store in shaded places for many years.

■ PACKAGING

Carton box: 20 water soluble bags of 900gr each one for 6mm fibers
Carton box: 20 water soluble bags of 900gr each one for 12mm fibers

TECHNICAL SPECIFICATIONS

■ Form - Color	Polypropylene fibers (PP) of direct dispersion - White
■ Expansion in water	0%
■ Number of fibers:	
•at 6mm	240 million/kg
•at 12mm	120 million/kg
■ Fibers size	40µm max
■ Density	0.91kg/lt
■ Laboratory elongation of fibre	22%
■ Tensile strength	360 MPa
■ Melting point	160°C
■ Length	12mm & 6mm
■ Compatibility	With every cementitious mortar admixture

DUROSTICK S.A.,

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PAINTS & MORTARS

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