

# 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 that prevents the formation of hairline cracks (cracking) during the curing process. The addition of fibers to the cement mortar or to the 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 machinery. Certified per EN 14889-2.

## APPLICATIONS

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

**In shotcrete and regular concrete:** add fibers in 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 material loss) as well as air bubbles and helps to create thicker layers. 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 to 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. 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 segregation and separation. The addition of DUROFIBRE 6mm is necessary if the aggregates are less than

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10mm and mainly in thin layers of standard or traditional cement mortars.

### USE

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

### CAUTION

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/m<sup>3</sup> of concrete or mortar.
  - 12mm: From 900-1.200gr/m<sup>3</sup> 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

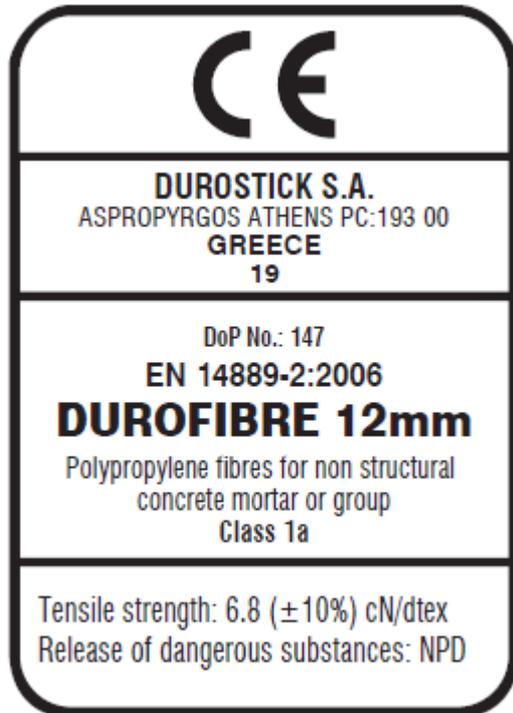
TECHNICAL SPECIFICATIONS	
<b>Form - Color</b>	Polypropylene fibers (PP) of direct dispersion - White
<b>Expansion in water</b>	0%
<b>Number of fibers:</b>	
•at 6mm	240 million/kg
•at 12mm	120 million/kg
<b>Fibers size</b>	40µm max
<b>Density</b>	0.91kg/lt
<b>Laboratory elongation of fibre</b>	22%
<b>Tensile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

The technical specifications and directions of use contained in this technical brochure are the results of the knowledge and experience of the company's research and development department, as well as from the real-life applications of the product. The recommendations and suggestions regarding the use of the products are made without guarantee since the respective conditions during their application are beyond the control of the company. For this reason, it is the user's responsibility to make sure that the product is suitable for the intended application as well as the application conditions of the project.

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## DUROSTICK S.A.

MANUFACTURING OF ADHESIVES, PAINTS & MORTARS

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