



**RoFero**  
**Structural Polypropylene Fibers**

**GENERAL DESCRIPTION**

RoFero is a structural, color blended fiber mix, made of 100% virgin copolymer/polypropylene, which consists of twisted bundles of non-fibrillated monofilament fiber with over 500 N/mm<sup>2</sup> tensile strength

It yields a high-performance concrete reinforcement property.

RoFero is a heavy-duty, non-corrosive, non-magnetic, 100% Alkali proof fiber, with a better dispersion than the steel fibers.

**RoFero ADVANTAGES**

- **Cost**
- **Disperse structural** reinforcement – Reinforces each cubic centimeter of concrete
  - **Completely replaces** the rebars or the welded mesh
  - Better dispersion than steel fibers
  - More fibers/cm<sup>3</sup> of concrete than the steel fibers
- **Transport** – The weight of needed armature is drastically reduced
- **Time** – As opposed to classical reinforcement, where you need to put the rebars in place and tie them, the fibers are mixed for up to 7 minutes in the concrete
- **Improved physical characteristics:**
  - Reduces the shrinkage of plastic (fresh) concrete
  - Reduced thermal expansion and contraction of hardened concrete
  - Improves impact strength with 20%
  - Improves compression- and wear-resistance
  - Offers maximum long-term durability
  - Offers plastic shrinkage crack control
  - You can build floors with less or even without (depending on project) joints
  - Replaces steel fibers with 1:10 ratio. You need 10 times less quantity.
  - Fibers absorption is bigger – 7.5 kg/m<sup>3</sup>, equivalent to 75kg of steel fiber. (The maximum absorption of steel fiber is 45kg/m<sup>3</sup>)

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## APPLICATIONS

RoFero is used wherever a more effective three dimensional concrete reinforcement is needed and it can completely replace the rebars, welded mesh or steel fibers in ground-level concrete.

- “Slab-on-Grade” projects
- Industrial floors
- Commercial floors
- Floors which require less or no joints
- Bridge decks
- Shotcrete
- Loading and unloading ramps
- Precast
- Parkings
- Streets
- And other project types

## HOW TO USE

The recommended dosage of RoFero is 1kg – 7.5kg/m<sup>3</sup> of concrete;  
It is directly added in the concrete blend or after mixing the other components.  
Mixing and homogenization can be achieved either at the concrete station or directly in the truck mixer in 7 minutes at medium speed.

We recommend using only additives (and not water) in order to increase the concrete’s fluidity.

For any more details, please do not hesitate to contact us. Our technical team will be pleased to help you.

## PHYSICAL PROPERTIES

Material	Virgin Copolymer/Polypropylene
Color	Gray
Form	Monofilament/Fibrillated Fiber System
Acid/Alkali Resistance	Excellent
Specific Gravity	0.91
Absorption	Null
Tensile Strength	over 500 N/mm <sup>2</sup>
Length	54 mm/ 38 mm
Compliance	EN 14889-2/2007

## PACKING

Bags	1 Kg
Boxes	16 Bags
Pallets	12 Boxes / 192 Bags

Should you have any questions, please do not hesitate to contact us. Our technical team will be pleased to help you.