



X MESH™

X Mesh™ Fiber – structured synthetic macrofiber made of oriented polypropylene copolymer in the form of twisted hard fibers, treated with a special compound that improves adhesion to concrete grout.



X MESH™ FIBER INTENDED PURPOSE

X Mesh™ fiber is intended for volumetric concrete reinforcement. Its structure, with a rough surface for better adhesion in a concrete matrix, is specially designed as a replacement for steel alternatives (fiber, mesh, reinforcement) and serves to provide tensile strength in bending, increase energy absorption capacity, increase resistance to impact and abrasion, prevent cracking and increase the concrete strength.

X MESH™ FIBER APPLICATION

- industrial concrete floors;
- cement sand screeds;
- mortars;
- SAF casting from concrete;
- parking lots;
- road, bridge and airfield pavements;
- shotcreting;
- residential and non-residential buildings concrete structural elements, tunnels, mines, roads, bridges;
- hydraulic structures;
- bank vaults;
- concretes of B5-B100 class, etc.





X MESH™ FIBER SPECIFICATION

Form	twisted fiber	Equivalent diameter	0.45 mm
Colour	grey	Elongation	10-25 %
Length	23; 39; 54 mm	Melting point	160-170 °C
Specific density	0.91 kg/m ³	Water absorption	no
Tensile strength	>1000 MPa	Acid and alkali resistance	full
Elasticity modulus	>3500 MPa	Single fiber quantity	up to 900,000 pcs./kg

X MESH™ FIBER APPLICATION EFFECT

- volumetric distribution in a concrete matrix, reduction of cracking and delamination;
- tensile strength in bending increase;
- impact resistance increase;
- high efficiency of energy absorption at low dosage;
- fire resistance increase;
- corrosion resistance in aggressive environments;
- no impact on concrete mixing and feeding unit wear;
- economic benefit (acceleration of operations, reduction of labor and logistics costs).



X MESH™ FIBER DOSAGE

1-3 kg of X Mesh™ Fiber per 1m³ of concrete – depending on application

X Mesh™ fiber is evenly distributed both in the ready-mixed concrete and in case of components dry mixing in any type of mixer, as well as does not create any restrictions at concrete pump feeding.

X MESH™ FIBER PACKAGING

X Mesh™ fiber is packed in 1 kg plastic bags.



Manufacturer:
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