

## Pro Macrofiber

Macro Polypropylene Fibers Additives for Concrete Reinforcement

Description	Pro Macrofiber is a macrofiber mono filament fibers are a three-dimensional concrete reinforcing system manufactured from 100% virgin Co-polymer (poly propylene) with high density and resistance. It is macrofiber with conveying wave shape Pro Macrofiber improve all major properties of concrete and reduce concrete cracks due to shrinkage by up to 99.5 % compared to standard concrete. Standards:  Complies with ASTM C-1116 Type III, ASTM D-7 508, ASTM C -1609, E N 14 889 Part II Type II, EN 14651, EN 12350, ISO 6892, UNI 11309/1,2
Where to use	It is used as an alternative to steel wire mesh or crack control purposes, to reduce plastic shrinkage cracks and plastic settlement and to enhance the surface properties as erosion, impact. Additionally, it controls thermal cracking in plain concrete slabs.  It is used for:  Industrial flooring,  Subways and Cellars.  Ideal for warehouse, factory units.  Hard standings and roads.  Precast Elements.  Bridge decks, Foundations and Tunnels.  Coastal and Water structure
Advantages	It provides the following advantage:  Gives the composite certain ductility.  Good bond between the hardened cement paste matrix.  Increase crack tensile strength by 17 %.  Increase flexural strength by 6 - 8 %.  Improve water and chemical resistance.  Enhances durability of concrete.  Safe and easy to use.  Micro crack reduction 100 %.  Increase friction resistance.  Easily finished.
Properties	
Material	Mono filament polymeric fiber.
Fiber Shape	Wave Shape
Fiber diameter	0.48 -0.5 mm
Tensile Strength	560 - 650 N/mm²
Density	0.91 gm / cm³
Elastic modulus	7.2 - 8.5 GPa
Melting point	165 °C
Chemical resistance	Excellent
Aspect Ratio	112
Length	54 mm



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<b>Pro Macrofiber</b> is introduced into concrete during batching or after loading into concrete mixing trucks.
When dry mixing, the fines should be added first, followed by the fibers and the course
aggregates.
When wet mixing, the consistency of the matrix should be neither too stiff not too fluid, to ensure that the fibers are immediately dispersed and intermixed.
This may be achieved by premixing with half of the
mixing water, introducing the fibers and mixing, then
adding the remainder of the water.
Water reduces admix can be added to improve workability.
PROKEM recommends the concrete be cured for 24 hours after finishing operations are
complete by using Kemcure curing compound. spray applied surface contact curing
membranes should be used in all cases.
Add the Pro Macrofiber to the concrete truck and let drum rotate for 5 minutes before
discharge.
Water reducing admixtures can be used in the same concrete batch with <b>Pro Macrofiber</b> .
Pro Macrofiber reinforced concrete can be finished by any finishing technique.
Pro Macrofiber do not affect the finishing characteristics of concrete.
Pro Macrofiber are compatible with power troweled, hand troweled, colored, stamped, dry
shake and broom.
Spillage of <b>Pro Macrofibe</b> with concrete can be removed with water.
Standard recommended dosage rate of 2 – 5 Kg/m³ of concrete.
Available in 5 Kg Sack
Unlimited, it must be stored in dry conditions.
• Pro Macrofiber is non-toxic.
<ul> <li>Use gloves to avoid contact with skin.</li> </ul>
If skin comes in contact, wash immediately with soap and water.  Provide a sale sale sale sale sale sale sale s
Do not use solvents.  The contemporation must be immediately used a with water then sook medical.
<ul> <li>Eye contamination must be immediately washed with water, then seek medical treatment.</li> </ul>
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chemicals and specialty products answering the queries of modern engineers for trouble free
durable structure.
PROKEM designs tailor made products should there be critical application that requires specific
properties rather than our main range. For our customer's satisfaction.
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