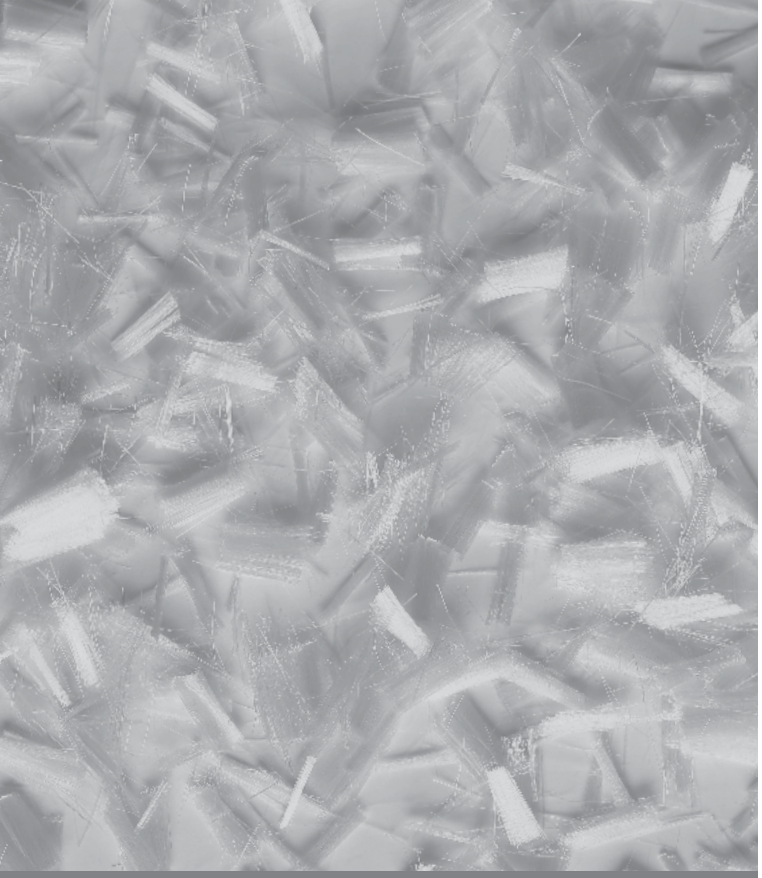
PDS



Polymono

Increased Durability and Service Life for Concrete Applications

Polymono micro synthetic fibers are used in any concrete application to provide plastic shrinkage and plastic settlement crack reduction, thereby enabling concrete more durable and more resilience over the entire span of service life. It is easy to use and can be directly mixed into concrete, eliminating the time and effort needed to transport and install traditional mesh for the purposes of shrinkage/temperature crack control. Polymono fibers reduce freeze/thaw damage and mitigate permeability of water and chemicals into concrete due to three-dimensional effect of the fibers within the concrete mix. Polymono fibers are also used in shotcrete applications reducing rebound greatly and save material.

Applications

- Industrial Floors, slabs on grade
- Footings, Foundations
- Walkways
- Residential Driveways
- Architectural Paving
- Overlays, Toppings
- Screed Concrete
- Stucco
- Repair Mortars
- Plaster Applications
- Construction Chemicals
- Shotcrete
- Tunnel Linings
- Precast Applications
- Extruded Curbs and Gutters

Usage Instructions and Mixing

Depending on the project requirements, Polymono recommended dosages vary between 0.3 kg/m^3 and 2 kg/m^3. Homogeneous mixture is obtained by addition of Polymono to the aggregate band at the concrete batching plant or by mixing in a high speed concrete mixer for at least 5 minutes in the field. It is recommended to use plasticizer additives at high fiber dosages.

Packaging Types

- 5 kg PE or 300-450-600-900 gr degradable packaging
- Custom packaging alternatives by application requirements

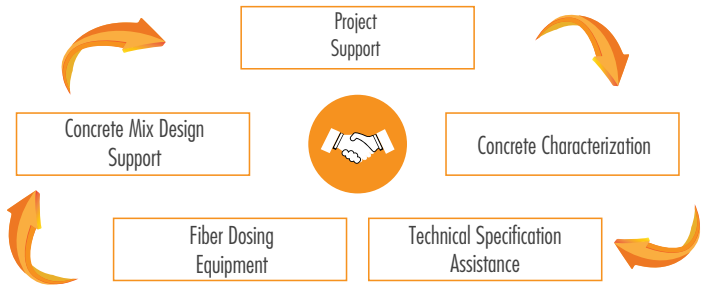
Product Types

Construction Chemicals	Concrete Applications
Polymono 3	Polymono 12
Polymono 6	Polymono 18

- Other lengths are available upon request.

polyfibers®
REINFORCEMENT SOLUTIONS

Full Solution



Storage & Disposal

- It is recommended to store fibers within original packages, between +5°C and 30°C, protected from moisture and direct sunlight.
- Should not be stored near flammable or oxidizing materials.
- Should not be stacked unless proper precautions are taken.
- It is the responsibility of the end user to dispose the product and the package.

Typical Properties - Polymono

Composition	100% virgin polypropylene
Type	Monofilament micro synthetic fiber
Impurity	Contain No Reprocessed Olefn or No Polyamide or No Recycled Materials
Cross Section	Circular
Standards & Certifications	EN 14889 Part II Type 1A, ASTM C1116 Type III, ASTM D7508, ICC AC 32
Elastic Modulus	6 GPa
Tensile Strength	500 MPa
Specific Weight	0.91 gr / cm^3
Diameter	30-32 micron (18-20 micron is also available on request)
Tenacity	6.5 - 7.0 gr / Denier - High Strength
Color	Transparent
Number of Fibers	120 million+ / kg for 12mm
Surface Area	140+ m^2/kg
Corrosion	Non-corrosive
Water Absorption	N/A
Chemical Resistance	Excellent alkali resistance
Acid effects	Stable
UV stabilize	Optinal
Cement Compatibility	Excellent
Magnetism	Non-magnetic
Melting Point	165°C
Ignition Point	> 360°C

LEGAL DISCLAMIER

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