

Floor Systems / Floor Systems - Other Products

POLIMIX

Polypropylene Fiber

Description

Polypropylene based **fiber**, produced especially for concrete and mortars to **reduce the cracking** of concrete. Resistant to acids and alkaline.

Application Areas

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- Field Concrete:
- Industrial floors, parking garages, hangar floors, airports
- Machinery foundations exposed to abrasion
- Water tanks, swimming pool concrete
- Thin floorings

Mortars

- All types of plaster, repair and isolation purposed mortars

Precast Elements

- Pipe manufacturing
- All types of precast elements

Shotcrete

- All types of shotcrete applications.

Advantages

- Resistant to water and alkaline
- Resistant to abrasion, increases resistance to impacts
- Has high mechanical resistance due to effective dispersion within concrete and low segregation
- Since it prevents cracks, it can help waterproofing by removing capillary voids where water may leak in
- Prevents shrinkage that results from water loss in fresh concrete by increasing tensile strength
- Higher resistance of concrete against fire
- Reduces corrosion of metal reinforcement
- Lower cracking tendency
- Increases strength against fractures on concrete edges and sides.

Consumption

600 - 900 g in 1 m³ concrete depending on usage.

Packaging

In water soluble bags of 600 g or 900 g (Sizes from 3 mm, 6 mm, 12 mm, 19 mm... up to 60 mm are available.)

Technical Properties

Appearance	Transparent white fiber
Density	~ 0.91 kg/L
Tensile Strength	500 - 700 N/mm ²
Modulus of Elasticity	2000 - 2800 N/mm ²
Alkaline Reaction	Stable
Acid Reaction	Stable
Moisture Uptake	70% moisture and 21°C < 0.10%
Heat Resistance	Melts at +165°C
Elongation	25%
Flash Point	> 239°C



Technical Data Sheet (TDS)

Form No: 5.01 TDS Polimix
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18 March 2019

Page
2 / 2

* Application instructions and technical data provided for the products are obtained in line with our experience and the tests are implemented according to international standards, under ambient temperatures of $23\pm 2^{\circ}\text{C}$ and ambient relative humidity conditions of $50\%\pm 5$. Higher temperatures decrease while lower temperatures increase these durations.