

# POLIMIX

Polypropylene Fiber

## DESCRIPTION

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

## APPLICATION AREAS

### 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

- Concrete pipe manufacturing
- All types of precast elements

### Shotcrete

- All types of spray concrete applications.

## TECHNICAL PROPERTIES

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

## ADVANTAGES

- Resistant to water and alkaline.
- Resistant to abrasion, increases resistance to impacts.
- Has high mechanical resistance due to effective dispersion in the 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.
- Increases the resistance of concrete against fire.
- Reduces corrosion of metal reinforcement.
- Has lower cracking tendency.
- Increases strength against fractures on concrete edges and sides.

## CONSUMPTION

600 – 900 g in 1 m<sup>3</sup> 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.)

## APPLICATION

### MIXTURE AND APPLICATION

Add POLİMİX into the concrete batching plant or concrete mixer in water soluble sachets in little amounts. Mix for 5 minutes for homogeneous distribution of POLİMİX in the concrete.

### CAUTION

- The use of POLİMİX may reduce the fluidity of concrete. It is recommended to add a concrete plasticizing admixture instead of more water to increase viscosity.
- Low water/cement ratio, correct cement and aggregate dosage and curing of the concrete after application are required for good results.
- Dissolves in solvent after +60°C.

### HEALTH AND SAFETY

Do not approach storage or application areas with fire. During the application, use work clothes, protective gloves and glasses in accordance with the occupational and worker health rules. Consult a doctor if accidentally swallowed. Store out of the reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Yapı Chemicals San. Trade Ltd. Sti. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.