

KraTos Micro 6 mm

Technical Data Sheet

KraTos
FIBERS

DESCRIPTION

KraTos Micro 6 mm is a high-performance polymer-based monofilament micro synthetic fiber reinforcement that provides effective crack control against short-term plastic shrinkage and long-term drying shrinkage with its 3-dimensional homogeneous distribution property in concrete.

KraTos Micro 6 mm is locally manufactured according to EN 14889-2 Class 1 standard with Kordsa engineering from 100% virgin Polyamide 6.6.

APPLICATION AREAS

KraTos Micro 6 mm is used in all screed, precast concrete elements, plaster, mortar and construction chemicals applications.

PHYSICAL PROPERTIES

Property	Unit	Value	Technical Specification
Specific Gravity / Density	gr/cm ³	1.14	EN 14889-2
Length	mm	6	
Filament Diameter	micron	27	
Tensile Strength	MPa	900	
Elongation at Break	%	17.55	
Melting Point	°C	260	
Alkaline Resistance		Very Good	
Corrosion Resistance		Very Good	
Num. of Fibers	~#/kg	222 Million	
Fiber Type		Monofilament	
Type of Raw Material		100% Polyamide 6.6	

PACKAGING

KraTos Micro 6 mm is produced in special water-soluble packages. The standard package amount is 450 gr (±1.5%). 306 kg of product is shipped in one palette.

SHELF LIFE AND STORAGE

The suitable shelf life for unopened packages is 2 years. It is recommended to store the product in its original packaging in a closed environment, protected from moisture, water and direct sunlight.

DOSAGE

KraTos Micro 6 mm is used with a special dosage to be determined in screed, precast concrete elements, plaster, mortar and construction chemicals applications.

DIRECTIONS FOR USE / MIXING

KraTos Micro 6 mm is produced in special water-soluble packages. In applications requiring dry mixture, maximum homogeneity is achieved by mixing the fibers with binder and aggregate.

It provides speed and convenience by mixing with concrete with its pack in concrete production facilities and on-site mixing. KraTos Microfibers are compatible with all types of concrete additives and classes.

FEATURES & BENEFITS

- Provides long-term and effective protection against crack formation with its 900 MPa tensile strength
- With a melting point of 260 °C, it is not affected by various heat levels that occur during production processes
- Due to the monofilament structure of the fibers and the characteristics of Polyamide 6.6, the fibers do not clump together, thus allowing a homogeneous distribution all over the concrete during the production process
- Dust-free during mixing and packaging processes thanks to its high product density
- Easy mixing and fast application
- Creates less labor and equipment cost advantage
- High durability against corrosive, alkaline and acidic environments
- Easy to store. Provides advantageous logistics costs
- Does not affect magnetic fields with its polymer structure
- Increases concrete resistance against freeze-thaw effects
- Prevents bleed in concrete by increasing the surface properties of concrete
- Reduces spalling of concrete by reducing the internal pressure stress during a fire

LEGAL DISCLAIMER

The recommendations regarding the use of KraTos Micro 6 mm product presented by Kordsa Teknik Tekstil A.Ş. under the document are only recommendations and may vary according to the customer's purpose of using the product and technical data. Since the customer has the expertise and knowledge regarding the intended use of the product and the products made from the product in question, regardless of whether the product is used alone or with other materials, the customer undertakes all the risks and responsibilities arising from the use of the product. Kordsa Teknik Tekstil A.Ş. expressly declares that it is not liable for any loss and/or expense that may arise in the eye of the customer, regardless of whether it is used in accordance with the usage recommendation offered to the customer.