FIBERMIX®

TECHNICAL CERTIFICATE FOR PRODUCT

EN 14889-2:2006

Microfiber FiberMix®

High-quality monofilament polypropylene fibers

Used in:

- Different types of concrete, shotcrete
- Concrete products, screeds
- Approach tracks, mortars
- Industrial and warehouse floors
- Dry building mixes

PRODUCT DESCRIPTION

Microfiber **FiberMix®** is a high-effective monofilament fiber. Polypropylene fiber is developed for reducing microplastic shrinkage and cracking during concrete hardening, also for improvement of concrete strength and its surface quality. Fibers are also used in mixes and mortars for increasing tensile strength in bending, decreasing risk of segregation. Microfiber is an economically efficient and high-quality alternative to steel mesh for controlling crack formation.

ADVANTAGES

- reduces microplastic shrinkage and cracking of concrete
- replaces steel mesh
- reduces penetration of water and chemicals
- increases concrete tensile strength in bending
- doesn't break, distributes homogeneously in concrete/mortar
- improves resistance to freezing and thawing of concrete
- improves impact resistance of concrete, coagulation resistance, fatigue resistance, seismic performance
- increases concrete durability and aging resistance
- improves fire resistance of concrete

TECHNICAL CHARACTERISTICS

Type	white monofilaments, 100% polypropylene
Tensile strength	560 MPa
Consistency of concrete with 4 kg/m^3 of FiberMix 12 mm	VeBe time 7 sec
Equivalent diameter of single fiber	0,02 mm
Fiber length	2, 3, 4, 6, 12, 18 mm
Density	0,91 g/cm^3
Content of adhesion component	0,8%
Chemical and alkali resistance	excellent
Distribution in water	10 sec
Moisture content	1%

Coating the fibers with an active adhesive component allows the fiber to be dispersed effectively, creating a homogeneous three-dimensional matrix in the concrete mix.

LLC "FIBERMIX"

Ukraine, 49051, Dnipro city, 2G Oleksandra Otsupa str.

www.fibermix.ua; www.mixfiber.com; export@fibermix.ua; +38 (068) 900-66-99

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USAGE

When laying concrete, the standard concrete laying procedures must be followed. FiberMix® microfiber is added to the mixer before, during or after dosing of other concrete materials. Mixing time is at least 5 minutes.

DOSAGE

FiberMix® microfiber is ready to use with 0,9 kg/m^3 mortar or concrete. If you want only a reduction in cracking, just use 0,6 kg/m^3 of concrete or mortar.

OVERDOSE

An overdose of **FiberMix®** microfiber typically causes decreasing in performance and increasing the cohesiveness of the mixture.

COMPATIBILITY

FiberMix® microfiber is compatible with all commonly-used concrete additives and performance-enhancing chemicals.

HEALTH AND SAFETY

FiberMix® microfiber is non-ignitable and not harmful to human health.

STORAGE

FiberMix® microfiber in a closed original bag has a shelf life of 36 months from the manufacturing date. Under the condition that the fiber is stored in a dry place at a temperature of 0° to +40°C and without exposure to direct sunlight.

PACKING AND TRANSPORTATION

Transparent PE packs of 0,6 / 0,9 kg; packing in a bag of 18 kg; 540 kg per pallet. Fibers must be transported under conditions that prevent moisture from entering the packaging.

ADDITIONAL INFORMATION

LLC "FIBERMIX" is a certified manufacturer of **ArmoTec®** and **PolyMesh®** concrete structural macro fibers. Our company is a full-cycle manufacturer, from the purchase of raw materials to the finished product. Our production is certified according to the ISO 9001:2015 system. We have over 10 years of experience in the polymer reinforcement market.

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