

MasterFiber 006

MasterFiber 012

MasterFiber 018

Polypropylene micro fiber, clas Ia according to EN 14889-2

APPLICATION

According to EN 14889-2 this fiber is supposed to be used for other purposes in concrete, mortar and grout.

CERTIFICATES

This fiber is certified according to EN 14889-2.

FEATURES AND BENEFITS

- Minimizes the crack propensity due to plastic shrinkage
- Improves fire resistance of concrete (anti-spalling effect), especially at short fiber length
- Stabilizing effect in concrete mixes
- Excellent resistance in alkaline and acidic environment
- Provides rust free reinforcing solutions
- Easy and safe to handle
- No negative impact regarding machinery wear

RECOMMENDED DOSAGE

0.6 – 3.0 kg/m³. Higher dosages are generally possible but substantial re-design of a given concrete mix design is required.

DOSING AND MIXING

Appropriate fiber dispersion can be achieved either by adding the fibers to a raw material feeding belt (ideally fibers first) or by adding the fibers via a sufficient dosing equipment directly into the mixer or ready mix truck to the already mixed concrete. While processing attention shall be paid that fibers do not separate or agglomerate (e.g. during discharge to mixer), regarding the latter one special care should be taken that fibers are added to zones with sufficient shear. Our recommendation is to continue mixing for minimum 90-120 seconds after the addition of fibers. Very high fiber dosages may require higher mixing time in order to achieve sufficient fiber dispersion.

COMBINATION

Because of its inert nature, these fibers can be combined with all products of the Master Builders Solutions product range. As generally recommended also for combination of this fiber with MasterAir products initial and identity testing should be performed.

Product Data			
Polymer type	Polyolefin		
Colour	Colourless		
Density	0,91 g/cm ³		
Fiber class	Ia		
Fiber longitudinal shape	Straight		
Fiber sectional shape	Round		
Equivalent diameter	30 – 35 μ m		
	MasterFiber 006	MasterFiber 012	MasterFiber 018
Fiber length	6 – 7 mm	12 mm	18 mm
Fiber count	>200 Mio./kg	>100 Mio./kg	>65 Mio./kg
Melting point Ts	ca. 150 - 170°C	ca. 150 - 170°C	ca. 150 - 170°C
Logistics			
Transport	No dangerous goods according to transport regulations		
Disposal	Combustible in appropriate facilities considering locally applicable guidelines		
Marking accordint to EC-guidelines	No obligation for indication		

ADVICE

The addition of fibers to a concrete might decrease its consistency. This should not be compensated by adding water to the mix. The recommendation is to optimize the mix either by adapting the mix design or by adding a superplasticizer. In order to evaluate properly preliminary tests under practical conditions with regard to mixing, placing and curing are advisable. For any further advice, please contact your local technical sales contact.

STORAGE AND DISPOSAL

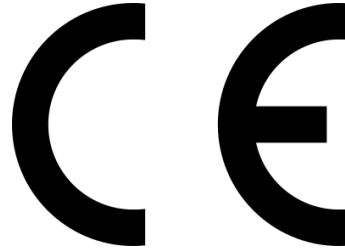
The shelf life is 48 month, if stored in original packaging between +5 °C and +30 °C protected from humidity and direct sun light. In case of packaging in bundles dry environment is required. Protect against fire. The disposal of the product and its packaging is the responsibility of the end user. Please take into account requirements according to local legislation.

HEALTH AND SAFETY

If treated according to the purpose of use no harm or injury to be expected. Common rules of occupational health and safety should be applied while handling this fiber.

PACKAGING

Micro fibers are generally available either in 30 x 0.6 kg degradable bags in carton box (18 kg), or 20 x 0.9 kg degradable bags in carton box (18 kg). For other packaging options, please contact us.



CONTACT DETAILS

Master Builders Solutions Finland Oy
Lyhtytie 3
11710 Riihimäki
Finland
www.master-builders-solutions.fi

DISCLAIMER

NOTE:
Similar to all the other recommendations and technical information, this technical data sheet serves only as a description of the product characteristics, mode of use and applications. The data and information given are based on our technical knowledge obtained in the bibliography, laboratory tests and in practice. The data on consumption and dosage contained in this data sheet are based on our own experience and are therefore subject to variations due to different work conditions. Real consumption and dosage should be determined on the job by means of prior tests and are the liability of the client. Our Technical Service is at your disposal for any additional advice. Master Builders Solutions Finland Oy reserves the right to modify the composition of the products provided these continue to comply with the characteristics described in the data sheet. Other applications of the product not covered by those indicated shall not be our liability. In the case of defects in the manufacturing quality of our products we provide a guarantee, any additional claims being exempt and our liability being only to return the value of the goods supplied. The possible reservations with respect to patents or third-party rights should be noted. The present data sheet becomes null and void on issuance of a new edition.