

DonFiber PP-M

High-performance monofilament polypropylene fibers (Formerly known as PP Fiber)



DESCRIPTION

DonFiber PP-M is a monofilament micro fiber reinforcement, manufactured of 100% polypropylene fibers containing no polyamide, nylon or reprocessed olefin materials. It is designed for use with all cementitious mixes.

The inclusion of DonFiber PP-M within a concrete mix or cementitious mixes will reduce and control plastic shrinkage cracks and early age cracks.

APPLICATIONS

DonFiber PP-M is ideally designed to decrease the plastic shrinkage cracking and plastic settlement cracking in the following applications:

- » Slab on grade.
- » Elevated slabs.
- » Parking areas.
- » Precast concrete.
- » Coatings and screed concrete.
- » Shotcrete.
- » Highway, railway, bridge decks.
- » Industrial and residential floors.

ADVANTAGES

- » Controls and inhibits crack formation caused by plastic shrinkage, settlement or other internal stresses in concrete.
- » Reduces shotcrete rebound.
- » Improves fresh mix properties (homogeneity & cohesiveness).
- » Increases concrete durability.
- » Easily distributed throughout the cementitious mix.
- » Compatible with all types of cement and concrete admixtures.
- » Rust-free.
- » Reduces bleeding.

STANDARDS

DonFiber PP-M complies with the requirements of ASTM C1116, Type III and EN 14889 Part II, Type 1A.



TECHNICAL PROPERTIES:

Composition:	100% virgin polypropylene
Form:	Monofilament micro fiber
Specific gravity:	0.91
Tensile strength:	465 - 540 MPa
Modulus of elasticity:	4045 - 5670 MPa
Equivalent diameter:	30 - 32 microns
Elongation:	20 - 25%
Melting point:	160°C
Absorption:	Nil/Hydrophobic
Chloride content:	Chloride-free
Sulphate content:	Sulphate-free
Alkali content:	Alkali-free
Alkali and acid resistant:	Excellent
Oxidant resistance:	Excellent
Biological resistance:	Excellent



DonFiber PP-M

METHOD OF USE

MIXING

DonFiber PP-M is added to the mixer before, during or after batching of concrete. Mix for 5 - 6 minutes at high speed after the addition of the final dosage to ensure uniform distribution of fibers.

DOSAGE

Dosage of DonFiber PP-M will vary depending on the area of application and the required properties of concrete mixes. Typical dosage is between 0.6 - 0.9 kg/m³ of concrete.

LENGTH

DonFiber PP-M is available in two grades:

- » Single length: 6,12,18, and 25 mm.
- » Graded: 6,12,18 mm mixture.

Other lengths are available upon request.

PACKAGING

- » 600 g or 900 g water soluble packs.
- » 5 kg plastic bags.

Other packaging is available upon request.

STORAGE

Store in original unopened packaging in dry and shaded areas at temperatures between 5°C and 30°C, protected from moisture and direct sunlight.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

CAUTIONS

HEALTH AND SAFETY

There are no health risks associated with proper use of the product.

For further information refer to the Material Safety Data Sheet.

FIRE

DonFiber PP-M is combustible and will burn if exposed to flame or other sources of ignition.

MORE FROM DON CONSTRUCTION PRODUCTS

A wide range of construction chemical products are manufactured by DCP which include:

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.