

# DonFiber PP-F Plus

High strength fibrillated polypropylene fibers



## DESCRIPTION

DonFiber PP-F Plus features effective crack control against short-term plastic shrinkage and long-term drying shrinkage. Its fibrillated micro fiber structure, composed of 100% polypropylene fibers, ensures comprehensive reinforcement within concrete mixes. This attribute enhances strength and resilience while maintaining efficient distribution for optimal performance.

## APPLICATIONS

DonFiber PP-F Plus is ideally designed for the following applications:

- » Tunnel applications.
- » Shotcrete.
- » Slabs and parking areas.
- » Precast concrete.
- » Industrial and residential floors.
- » Highway, railway, bridge decks.
- » Construction chemicals.

## ADVANTAGES

- » High tensile strength.
- » Improves fresh mix properties (homogeneity & cohesiveness).
- » Controls and inhibits crack formulation caused by plastic shrinkage, settlement or other internal stresses in concrete.
- » Reduces shotcrete rebound.
- » Increases concrete durability.
- » Easily distributed throughout the cementitious mix.
- » Compatible with all types of cement and concrete admixtures.
- » Replaces light gauge welded-wire reinforcement (6 x 6 W1.4/W1.4) and traditional shrinkage and temperature reinforcement.
- » Increases Shock, impact and fatigue resistance.
- » Acts as post-crack reinforcement.
- » Rust-free.
- » Reduces bleeding.

## STANDARDS

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

## TECHNICAL PROPERTIES:

Composition:	100% virgin polypropylene
Form:	Fibrillated micro fiber
Specific gravity:	0.91
Tensile strength:	345 - 550 MPa
Elongation:	10 - 12%
Melting point:	160°C
Absorption:	Nil/Hydrophobic
Alkali content:	Alkali-free
Alkali and acid resistant:	Excellent
Oxidant resistance:	Excellent
Biological resistance:	Excellent

## METHOD OF USE

### MIXING

DonFiber PP-F Plus 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-F Plus will vary depending on the area of application and the required properties of concrete mixes. Typical dosage is between 0.6 - 0.9 kg/m<sup>3</sup> of concrete.

### LENGTH

DonFiber PP-F Plus is available in two grades:

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

*Other lengths are available upon request.*

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# DonFiber PP-F Plus

## 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-F Plus 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.

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### Note:

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