

# DonFiber PP Ultra

Ultra-fine, high performance monofilament polypropylene fibers



## DESCRIPTION

DonFiber PP Ultra is an ultra-fine denier, 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 Ultra within a concrete mix or cementitious mixes will reduce and control plastic shrinkage cracks and early age cracks.

## APPLICATIONS

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

- » Slab on grade.
- » Elevated slabs.
- » Parking areas.
- » Stamped concrete.
- » Precast concrete.
- » Water tanks.
- » Pavements.
- » Shotcrete.
- » Renders.
- » Composite decks.

## ADVANTAGES

- » Controls and inhibits crack formulation 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.
- » Reduces bleeding.
- » Higher fiber count per Kg than standard monofilament fiber resulting in lower dosages.
- » Rust-free.

## STANDARDS

DonFiber PP Ultra 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:	460 - 545 MPa
Modulus of elasticity:	4040 - 5670 MPa
Elongation:	20 - 25%
Melting point:	160°C
Absorption:	Nil/ Hydrophobic
Chloride content:	Chloride-free
Sulphate content:	Sulfate-free
Alkali content:	Alkali-free
Alkali and acid resistant:	Excellent
Oxidant resistance:	Excellent
Biological resistance:	Excellent



# DonFiber PP Ultra

## METHOD OF USE

### MIXING

DonFiber PP Ultra 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 Ultra will vary depending on the area of application and the required properties of concrete mixes. Typical dosage is between 0.3 - 0.9 kg/m<sup>3</sup> of concrete.

### PACKAGING

DonFiber PP Ultra is available in two grades:

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

Filled in:

- » 300, 600, 900 gram water soluble PE 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, contact DCP Technical Department 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 Ultra 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.