

DATA SHEET

POLYPROPYLENE CHIPS FOR SCREED REINFORCEMENT

Internal code: NEOFPP

1. DESCRIPTION AND USE

1.1. Description

Polyethylene fibre is a 100% virgin polypropylene monofilament fibre used to improve strength, long-term durability and to avoid the formation of microcracks in the concrete and mortars into which it is embedded.

Due to the monofilament structure, its dispersion is achieved homogeneously and three-dimensionally in the concrete mass, allowing maximum compaction, ensuring concrete reinforcement and reducing settlement. Monofilament fibres are not corrosive, chemically inert and 100% alkali resistant.

1.2 Field of application

Monofilament polyethylene fibres are used in any concrete application:

- civil and industrial constructions
- concrete floors
- concrete slabs

They require no changes in the way the concrete is mixed or handled. They are used as a complementary element in the composition of concrete, improving the following characteristics:

- resistance to cracking, traction, impact, abrasion.



2. TECHNICAL CHARACTERISTICS

3.1 Physical properties

Composition	monofilament polypropylene
Specific weight	0.91 g/cm ³
Appearance	white
Absorption	none
Chemical resistance	inherent in cement alkalis and acids in general
Length	12 mm
Self-combustion temperature	+/- 400 °C
Breaking strength	min. 300 N/mm ²
Elongation at break	200 % +/- 40%
Fusion point	> 165 °C
Diameter	34 microns -- +/-2
Number of fibres	approx. 102 thousand/kg
PH	not determined
Resistance to Gas Fading	it is treated against its effect and it causes no yellowing

3. USE AND CONSUMPTION RULES

The recommended amount of monofilament **POLYPROPYLENE FIBRE** is **0.6 kg per cubic meter** of concrete, added directly to the concrete mixing system or after mixing the other

components, to be mixed according to the time and speed recommended by the manufacturer of the concrete mixer (usually 4 or 5 minutes). It must not be mixed directly with the concrete water under any circumstances.

Remarks:

- Take into account the properties of the concrete or mortar to which it is added;
- It does not replace the design reinforcement.
- It does not remove large cracks or shrinkage of concrete when drying;

4. PACKAGING AND STORAGE

4.1 Packaging

The **POLYPROPYLENE FIBRE** is packed in boxes containing 30 bags of 600 grams each.

4.2 Storage

In sealed packages, under optimal conditions of temperature and humidity.

5. WARRANTY PERIOD

The warranty period is 24 months from the date of delivery, provided that the customer/user fully complies with the transport, storage and mounting rules.

