

CRACK CONTROL / MICRO SYNTHETIC FIBRE

MONOFILAMENT 19

Fine virgin PP monofilament fibre for non-structural crack control



1 PRODUCT DESCRIPTION

Monofilament 19 is a white, very fine fibre made from 100% virgin polypropylene with no added additives. The unembossed monofilaments are intended for non-structural crack-control applications in mortar and concrete and may be combined with macro fibres in a verified hybrid system.

MORTAR CRACK CONTROL

CONCRETE CRACK CONTROL

HYBRID FIBRE USE

2 TECHNICAL PROPERTIES

PROPERTY	DECLARED VALUE
Material	100% virgin polypropylene; no additives
Form	Fine monofilament; no embossing
Colour	White
Standard length	19 mm; custom lengths by agreement
Equivalent diameter	30 micrometres
Tensile strength	≥ 550 MPa
Elongation at break	$< 40\%$
Elastic modulus	≥ 5 GPa

Declared values are product specifications. A commissioned test result is a sample result and is not presented as a guarantee for every batch.

3 RECOMMENDED DOSAGE

No universal dosage is declared. Establish the dosage from mortar or concrete requirements and verify dispersion and crack-control performance by trial.

BY PROJECT

DOSAGE BASIS: MASS OF FIBRE PER CUBIC METRE OF CONCRETE

4 BATCHING AND MIXING

- 1 Determine the batch dose by weight.
- 2 For ordinary PE bags, open the bag and add only the fibre. A verified water-soluble unit may be dosed intact in a compatible mixing process.
- 3 Add the fibre with cement and aggregates during the normal charging sequence.
- 4 Continue mixing for an additional 3-5 minutes after fibre addition, or until uniform dispersion is confirmed.

5 PACKAGING AND STORAGE

PACKAGING

Option A: 1 kg water-soluble bag. Option B: 1 kg ordinary PE bag.
Standard carton: 18 kg. Other packaging by agreement.

STORAGE

Store dry, protected from moisture and direct sunlight. Keep the original packaging closed until use.

6 TEST DOCUMENTATION

Selected physical-property data are supported by commissioned report JCBG(01)250304745, tested to GB/T 21120-2018. A public scan copy may be provided for reference; the formal stamped report is not published. This product is not presented as a structural fibre. Energy absorption and residual strength are not declared.

7 IMPORTANT USE NOTICE

Recommended dosage and processing guidance are starting points only. Confirm suitability through project-specific trial mixes, production trials and, where required, independent testing. This TDS is not a structural design, acceptance certificate or third-party test report.

MANUFACTURER

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