

DECORATIVE UHPC / FINE MODIFIED FIBRE

MODIFIED PP 12

Fine modified polypropylene fibre for decorative cementitious products



1 PRODUCT DESCRIPTION

Modified PP 12 is a transparent, fine modified polypropylene monofilament designed to improve interfacial interaction with cementitious matrices. The round fibre has no physical embossing. Its modifying chemistry and formulation are proprietary and are not disclosed in this public technical data sheet.

DECORATIVE UHPC

TRANSLUCENT CONCRETE

DECORATIVE PANELS

2 TECHNICAL PROPERTIES

PROPERTY	DECLARED VALUE
Material	Modified polypropylene fibre
Form	Fine round monofilament; no embossing
Colour	Transparent
Standard length	12 mm; custom lengths by agreement
Equivalent diameter	0.20 mm
Tensile strength	≥ 550 MPa
Elongation at break	$< 30\%$
Elastic modulus	≥ 7 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

Recommended starting range for decorative UHPC and related products. Confirm appearance, dispersion and performance through product-specific trials.

9-15 kg/m³

DOSAGE BASIS: MASS OF FIBRE PER CUBIC METRE OF CONCRETE

4 BATCHING AND MIXING

- 1 Determine the required dose by weight.
- 2 Open and remove the outer package before dosing unless the supplied package is specifically identified as water-soluble.
- 3 Add the measured fibre with the cementitious ingredients 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

Domestic supply: 10 kg per bag. Export packaging is agreed with the customer. This low-bulk-density fibre may require additional freight volume.

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)250207848, tested to GB/T 21120-2018. A public scan copy may be provided for reference; the formal stamped report is not published. Energy absorption and residual strength are not declared in this revision. No modifying-agent identity, ratio or grafting data are public product claims.

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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