

TwistR® GREEN HYBRID

Empowering Performance

■ PRODUCT DESCRIPTION

TwistR® GREEN HYBRID is a high-quality, easily workable concrete fibre, manufactured from 100% new copolymer/polypropylene.

This synergistic combination results in a high-quality concrete reinforcement system that transforms concrete into a stronger and more durable composite material.

■ CERTIFICATES & QUALITY

- EN 14889-2 – Class II (structural macro fibres)
- Production under an ISO 9001-certified quality system
- CE-standard production in Europe
- EPD in accordance with EN 15804+A2 & ISO 14025/ISO 21390

■ APPLICATION

TwistR® GREEN HYBRID is suitable for a wide range of concrete structures, including:

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| ■ Cycle paths | ■ Retaining walls |
| ■ Bus stops and bus lanes | ■ Storage areas |
| ■ Yard paving | ■ Washing bays |
| ■ Concrete roads and roundabouts | ■ Greenhouse floors |
| ■ Ground-bearing floors and industrial floors | ■ Swimming pool floors |
| ■ Precast concrete elements | |

■ PROPERTIES & BENEFITS

- Easy and light to use
- Shortens construction time and lowers maintenance costs
- Reduces plastic shrinkage cracks and thermal cracks
- Increases energy absorption

- Increases toughness, impact resistance and fatigue resistance
- Monolithic finish possible

■ PACKAGING

- Biodegradable, mixer-ready 1 kg bags
- Available in 10 kg boxes
- Easy to dose and safe to use

■ DOSAGE

Depending on the application, various concrete dosages apply: 3 to 6 kg per cubic metre of concrete.

■ MIXING GUIDANCE — CONCRETE PLANT

The fibres are packed per kilogram in water-soluble paper bags, 10 kg per box. The fibres do not absorb water; the bag absorbs approximately 75 ml. However, due to the increased surface area and the cohesion of the mortar, the flow value does decrease. In consultation with the plant, water and/or a plasticiser can be added.

- Never dose the fibres into an empty mixer
- Check the volume in m³ against the dosage
- Dose the entire bag into the mixing installation; the paper bag is water-soluble, so it can be mixed in whole and is no longer visible. This can be done:
 - Directly into the mixer
 - Via the conveyor belt
- Maintain the normal wet mixing time
- Let the concrete mixer keep mixing during transport
- Total mixing time, including transport time, at least 10 minutes
- Before starting to discharge, let the mixer run at full power for a short while
- Check the composition and the consistency

■ MIXING GUIDANCE — ON SITE, IN THE MIXER TRUCK

- Check the volume in m³ against the dosage
- Dose the entire bag into the mixing installation; the paper bag is water-soluble, so it can be mixed in whole and is no longer visible.
- Add the bags one by one
- Consistency S3 or lower:
 - Dose the entire bag into a fast-rotating mixer/mixing installation; the paper bag is water-soluble, so it can be mixed in whole and is no longer visible.

■ Consistency F4:

- Dose the entire bag into a fast-rotating mixer/mixing installation; the paper bag is water-soluble, so it can be mixed in whole and is no longer visible.

PLEASE NOTE: full mixers blend less effectively; at a high flow value extra attention is required!

■ PRODUCT INFORMATION

Type	Monofilament
Tensile strength	450 MPa
Modulus of elasticity	4.9 GPa
Length	48 mm
Material	Polypropylene
Colour	Green
Acid / alkali resistance	Excellent
Absorption	0.00
Effect on concrete strength at 5 kg/m ³	1.5 N/mm ² / CMOD=0.5mm 1.5 N/mm ² / CMOD=3.5mm
Dosage	2 – 6 kg/m ³

WOULD YOU LIKE MORE INFORMATION? PLEASE GET IN TOUCH

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