

# Wiking® 4050 TR

## ■ PRODUCT DESCRIPTION

Wiking® 4050 TR is a high-quality fibre used as a strong and cost-transparent addition or as an alternative to steel mesh and steel fibres for concrete reinforcement. It is a macro fibre made from polyolefins and is applied in industrial floors and the shotcrete field to prevent cracking.

## ■ APPLICATION

Wiking® 4050 TR GREEN HYBRID is suitable for a wide range of concrete structures, including:

- Concrete products
- Floors in industrial buildings
- Agricultural construction
- Operational areas

## ■ PROPERTIES & BENEFITS

- An alternative to reinforcement mesh for crack control
- Improved resistance to bending
- Fibres are non-magnetic
- Improved impact resistance
- Increased indirect tensile strength
- Strong performance after cracking
- Suitable for rough floors
- Reduces bleeding and shrinkage of the concrete

## ■ PACKAGING

- Biodegradable, mixer-ready 1 kg bags
- Available in boxes of 10 kg
- 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.

## ■ CERTIFICATES & QUALITY

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- EN 14889-2 – Class II (structural macro fibres)
- EN 14651
- CE declaration of conformity

## ■ MIXING GUIDANCE — CONCRETE PLANT

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The fibres are packed in polypucks, each pack containing 3 kg wrapped in water-soluble paper. Each polypuck contains approx. 100 grams of fibres, 30 bundles of fibres per bag. The unique film around the polypuck dissolves within 10 seconds. The fibres do not absorb water; 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.

- Successful processing:
  - Check the volume in m<sup>3</sup> 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 bags one by one
- Consistency S3 or lower:
  - Shake the bag of polypucks into a fast-rotating mixer/mixing installation. (the paper bag may dissolve less well due to a lack of liquid)
- 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
- After all fibres have been added, mix at maximum speed for at least 10 minutes (depending on the quantity of fibres and consistency)
- Check the composition

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

## ■ PRODUCT INFORMATION

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|                       |               |
|-----------------------|---------------|
| Type                  | Monofilament  |
| Tensile strength      | 557 MPa       |
| Modulus of elasticity | 9,612 MPa     |
| Length                | 48 mm         |
| Diameter              | 700 µm        |
| Material              | Polypropylene |

|                                 |                         |
|---------------------------------|-------------------------|
| <b>Acid / alkali resistance</b> | High                    |
| <b>Absorption</b>               | 0.00                    |
| <b>Dosage</b>                   | 3 - 6 kg/m <sup>3</sup> |

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## WOULD YOU LIKE MORE INFORMATION? PLEASE GET IN TOUCH

### **Dutch Fiber Trading B.V.**

Kwelder 3  
1713 GN Obdam  
The Netherlands

Tel: +31 (0)226 – 700 292

E-mail: [info@dutchfibertrading.com](mailto:info@dutchfibertrading.com)  
[www.dutchfibertrading.com](http://www.dutchfibertrading.com)

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