

Wiking® Standard Extra, bundled

Wiking® Standard Extra is a multifilament specialty fibre, which causes the tensile strength to develop early during the curing phase, forming a three-dimensional reinforcement system. The result is a resilient, highly durable concrete surface with or without surface coatings.

Advantages and properties

- Alternative to the reinforcing nets for controlling cracking
- Improves bending strength
- Our fibres are non-magnetic
- Improves the impact resistance

- Reduces the bleeding and shrinkage of the concrete
- Increases the gap between floor elements

General application areas

- Screed floors
- On concrete and parking decks etc.
- Concrete products
- Large indoor floors
- Agricultural construction
- Operating and traffic areas

Mixing instructions

When producing wet working mixtures, the fibre is to be added into the concrete mixer together with all other components. The fibres distribute well in the concrete mixture and increase the rigidity of the concrete. Compensate installation consistency by using plasticiser. The fibre allows fast and uniform three-dimensional distribution in the concrete matrix. Mixing time per mixer volume: approx. 60-90 sec.; preliminary tests of truck addition at the highest speed: approx. 10 min.

Manual installation using screeds and floats, as well as laser-controlled surface finishers can be used.

Supply range

Wiking® Standard Extra is available as 480 kg pallets, 24 x 20 kg carton, 20 x 1 kg packages. Minimum purchase by mutual agreement.

Specifications

Wiking® Standard Extra is physically resistant to all chemicals in concrete, the structure and surface of the fibre means that maximum tensile strength is effectively transferred to the concrete. As a result, the early shrinkage stress is evenly distributed in the concrete.

Surface treatment

The surface of the fibres is specially treated for high dispersion in and adhesion to concrete. At the same time, this treatment reduces the air intake into the concrete to approximately 1-3.0%. It is recommended to test the different concrete formulations for air voids prior to any concreting work.

Warranty notes

Wiking® Standard Extra complies with EN- 14.889-2, Fibre class 1a, System 1 and is manufactured in an ISO 9001-2004 certified facility. However, Danish Fibres has no control over the installation of their products and the workmanship, so it can not take responsibility for the final products.

Health and Safety Please read the specific safety data sheets or contact the technicians at Danish Fibres.

Technical advice

The technical department of Danish Fibres is at your disposal and can advise you on the correct use of our products.

Specifications – Wiking® Standard Extra

| | |
|-----------------------------|-----------------------------------|
| Material: | Polypropylene C3 H6 |
| Fibre length: | 12, 18, 24 and 36 mm |
| Density: | ≤ 0,91g/cm ³ |
| Design: | bundled |
| Diameter: | 50 µm |
| Tensile strength: | 361 MPa |
| Resistance against alkalis: | high |
| Water absorption: | None |
| Softening temperature: | a. 160°C |
| Dosage: | 1-3 kg p. m ³ concrete |

CE Declaration of Conformity No. 1077 - CPR-443012101e For static design according to Eurocode 1 - 8

Requirements of EN 14.889-2, Fibre class 1a, System 1 Determination of design values, Austria Association for Concrete and Structural Engineering (ÖVBB) Guideline (RILI) Fibre concrete 2008 a. EN 1990 Bending beam tests according to EN 14.651

Declaration of Performance Annex III of the EU, No. Ü 443 0121 2018-E

Our static fibres also ensure a high level of impact resistance and post-cracking tensile strength in concrete

Crack opening area (-66%), average crack width (0.41 mm), shrinkage reduction (-52%) according to DIN EN 206 -1 and DIN 1045-2: 2013, with proven effectiveness

Approved for applications in contact with food in the EU, February 2016 / German Federal Law Gazette (BGBl.) I p.198

2022.11.04

