Wiking® 22 Micron

Wiking® 22 micron is a monofilament fibre which is extruded into very fine fibres and is especially effective in preventing possible cracking of the concrete during its drying phase.

The fibre is being used in every form of concrete in which one would want to prevent cracking caused by plastic shrinkage.

Benefits and characteristics

- Improves shock resistance
- Improves resistance to bending
- Increases time to escape safely, tunnels, underpasses, parking decks etc.
- Our fibres are not magnetic
- Reduced risk of explosive fragmentation

Specifications - Wiking® 22 Micron	
Material:	polypropylene C 3 H 6
Fibre length:	2, 3, 4, 6, 12 and 18 mm
Fibre cross section:	22 µm
Density:	0.91g/ cm^3
Design:	monofilament
Diameter:	22 µm
Tensile strength:	247 MPa
Resistance against alkalis:	good
Water absorption:	zero
Softening temperature:	approx. 160°C
Dosage:	0.6 - 2.0 kg/m^3

2025.01.27

General fields of application fire prevention

- Tunnel segments
- Interior shells
- Prefabricated concrete parts
- Underpasses
- Basement walls
- Parking garages

Mixing instructions

When preparing wet cement mixtures, the fibre should be added to the concrete mixer together with all the other ingredients. The fibres spread very well within the mixed batch and increase its rigidity. Balance out the consistency by using super plasticizer.

The fibre guarantees a quick and even spread into the concrete matrix.

The mixing time per mixing volume is 50-70 seconds; however, preliminary tests are always advised, due to slight variance between the different formulations.

The mixing time per mixing volume (at 2.5 m^3) approx. 50-80 seconds, execute preliminary tests in the truck trailer, at highest rotation for approx. 8-10 min.

A manual installation, using an extractor and a plastering trowel, as well as the installation by a laser controlled screeding machine are possible.

Delivery program

Wiking®3.3dtex 22 µm is available in 600 kg pallets, 24 x 25 kg carton, carton 25 x 1 kg packages. Minimum quantity is to be determined in a common agreement.

Specifications application

Wiking®22 µm is physically resistant against all the chemicals in concrete, and the appearance and durability of the concrete are not impaired.

Extent of Guarantee

Wiking®3.3dtex 22 µm complies with EN-14.889-2, fibre class 1b, system 1 production control and is produced in a facility that is certified with ISO 9001-2004. Danish Fibres does not have control over the installation of their products and their processing, and therefore cannot take responsibility for the final products.

Health and safety

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

Technical consultation

The technical department at Danish Fibres is available to you and can give you advice about the correct use of our products.

Danish Fibres

Snedkervej 3 · DK-6800 Varde · Denmark
P. +45 88 38 98 90 · F. +45 88 38 98 99
info@danishfibres.dk · www.danishfibres.dk