

PRODUCT DATA SHEET

SikaFiber®-022

MONOFILAMENT POLYPROPYLENE FIBRE FOR CONCRETE AND CEMENTITIOUS SYSTEMS

DESCRIPTION

SikaFiber®-022 is a high performance monofilament polypropylene fibre designed to reduce the occurrence of plastic shrinkage and plastic settlement cracking whilst enhancing the surface properties and durability of a cementitious matrix. SikaFiber®-022 is coated with a surfactant to improve initial dispersion and to bond with the cement paste. SikaFiber®-022 is suitable for use in hot and tropical climatic conditions.

USES

SikaFiber®-022 is used to prevent micro-cracking due to plastic and drying shrinkage in cementitious systems such as:

- Readymix concrete
- Shotcrete
- Cementitious overlays

- Industrial floor slabs
- Patch repairs to pre-cast elements
- Water retaining structures
- High performance concrete
- Precast concrete tunnel segments

FEATURES

- Improves concrete durability
- Improves the ability to apply greater thicknesses in a single pass
- Reduces rebound
- Enhances early age crack control
- Reduces line pressure in spray pumps
- Decreases construction time and labour
- Disperse uniformly throughout the mix
- Improves finishing characteristics
- Rustproof
- Improves fire resistance

PRODUCT INFORMATION

Composition	Polymerised polypropylene	
Packaging	Box of 30 x 0.6 kg water soluble bags	
Shelf life	12 months from date of production if stored properly	
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight and frost.	
Density	~0.91 kg/l (+25 °C)	
Dimensions	Fibre Length	~12 mm
	Fibre Diameter	~35 ±5 µm
Melting point	>160 °C	
Fibre volume content	~102 million/ kg	
Total chloride ion content	Nil	

TECHNICAL INFORMATION

Concreting guidance

The standard rules of good concreting practice for production and placing must be observed when using SikaFiber®-022 in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Anti-sol® products as a curing agent or apply wet hessian.

APPLICATION INFORMATION

Recommended dosage

Standard dosage is 0.6 kg/m³. Other dosages may be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.

Compatibility

SikaFiber®-022 is suitable for mixes containing all types of cement and supplementary cementitious materials such as: Microsilica (Silica Fume), Fly Ash (PFA), GGBS (Ground Granulated Blast Furnace Slag) and the following Sika products:

- Sikaviscocrete®
- Sikaplast®
- Sikament®
- SikaPump®
- Sika®FerroGard®
- SikaFume®
- SikaFiber®
- Sika® Aer
- Sika® Stabilizer
- SikaControl®

We recommend to perform trial mixes to establish the required performance when combining SikaFiber®-022 with the above products or other admixtures. Please consult our Sika Technical Department for further assistance.

Dispensing

Plant mixing:

SikaFiber®-022 should be added to the mixer after all other ingredients and water. Use a mixing time that ensures uniform dispersion of the fibre.

Truck mixing:

SikaFiber®-022 is best added in the batching plant mixer. In situations where the batch plant mixing is not possible, addition of SikaFiber®-022 in the truck shall be considered. In such cases, SikaFiber®-022 should be added first with ~30 % of the mixing water. Add the other ingredients, the remaining mixing water and continue mixing for a further few minutes at full speed to ensure uniform dispersion of the fibre.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product

data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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ISO 9001, 14001, 45001 – SGS
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Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
Sika MB Construction Chemicals LLC
Sika Construction Chemicals
for Manufacturing LLC
ISO 9001 – LMS
Sika MB LLC

All products are supplied under
a management system certified
to conform to the requirements
of the quality, environmental
and occupational health &
safety standards ISO 9001, ISO
14001 and ISO 45001.



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