

PRODUCT DATA SHEET

SikaFiber®-618 PPM ZA

POLYPROPYLENE MICROFIBRES FOR CONCRETE AND MORTARS

DESCRIPTION

SikaFiber® 618 PPM ZA are 6 mm long monofilament polypropylene fibres for use in concrete and mortars.

USES

For most types of non-structural concrete and cementitious mortars which need to reduce the incidence of shrinkage cracking:

- Ground bearing slabs
- Screeds and overlays
- Renders and plasters
- Precast concrete elements
- Sprayed applications
- Extruded concrete
- Interior and exterior applications

CHARACTERISTICS / ADVANTAGES

- Safe and easy to use
- Improves durability
- Reduces tendency for plastic and drying shrinkage cracking
- Reduces plastic settlement
- Reduces permeability
- Reduces slab curling
- Increases impact resistance
- Reduces spalling at high temperatures

PRODUCT INFORMATION

| | |
|---------------------|---|
| Chemical Base | 100 % polypropylene |
| Packaging | 600 g bag. Refer to current price list for packaging variations |
| Appearance / Colour | Transparent fibres |
| Shelf Life | 24 months from date of production |
| Storage Conditions | The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between + 5 °C and +35 °C. Always refer to packaging. |
| Density | ~0,91 g/cm ³ |
| Dimensions | Diameter 18 µm Length 6 mm |
| Product Declaration | Class 1a: Mono-filamented (EN 14889-2) |
| Melting Point | ~160 °C |

TECHNICAL INFORMATION

| | |
|----------------------------------|---|
| Specific tensile strength | ~52 cN/tex |
| Recommended Dosage | ~600 g per m3 concrete/mortar |
| Dispensing | <ul style="list-style-type: none">▪ Add the fibres with the dry aggregates taking care to evenly distribute the fibres throughout the mix.▪ The fibres can be added when all the mix components have been added, although the mixing time will need to be increased to ensure a uniform fibres distribution (as a guide add 1 extra minute for every 1m3).▪ Do not add the fibres directly into the mixing water. |

LIMITATIONS

- For best results use a good quality concrete / mortar. Fibres will not improve the quality of poor concrete or mortar
- SikaFiber® 618 PPM ZA is compatible with other Sika admixtures
- Do not use to replace structural steel reinforcement

BASIS OF PRODUCT DATA

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY HEALTH AND SAFETY

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

Sika South Africa (Pty) Ltd
9 Hocking Place,
Westmead, 3608
South Africa
Phone +27 31 792 6500
www.sika.co.za



Product Data Sheet
SikaFiber®-618 PPM ZA
August 2020, Version 01.02
021408021010000137

SikaFiber-618PPMZA-en-ZA-(08-2020)-1-2.pdf

