

PRODUCT DATA SHEET

SikaFiber®-148 Force

Polypropylene macro-synthetic fibers for shotcrete and concrete

DESCRIPTION

SikaFiber®-148 Force is a macro structural synthetic fiber that delivers optimum performance in highly corrosive environments. It is suited in shotcrete (sprayed concrete), pre-cast, slab on ground among many other applications.

USES

- Fibrecrete/shotcrete
- Ground supported slabs
- Precast elements
- Industrial flooring
- Sea defense
- Airport & pavements
- Slope stabilization

PRODUCT INFORMATION

Packaging	5 kg boxes - fibers wrapped in water soluble plastic puck.
Appearance and colour	Gray, White Embossed
Shelf life	24 months
Storage conditions	Store protected from the weather
Density	0.91 g/cm ³
Dimensions	Fiber length 48 mm Mean width 1.30 - 1.40 mm Mean thickness 0.55 - 0.60 mm
Melting point	170°C

TECHNICAL INFORMATION

Tensile strength	600 - 700 N/mm ²
Resistance to alkalinity	Excellent

CHARACTERISTICS / ADVANTAGES

- Non-magnetic, rustproof and alkali proof
- Less balling effect in difficult mixes
- No site waste or disposal issues
- Saves time and storage space in comparison to Traditional mesh
- Uniquely designed and packaged allowing it to be evenly dispersed ensuring no balling or pumping problems will occur.

APPROVALS / CERTIFICATES

UDEM Certificate of technical inspection.

APPLICATION INFORMATION

Recommended dosage	4 - 8 kg/m ³ Energy absorption >900 Joules with 7 kg/m ³ (as per EN 14488-5) The values are based on ideal FRC mix used in control environment. The performance of the FRC depends on the concrete mix design. Site trials are recommended to confirm the above values
Compatibility	SikaFiber®-148 Force marco-synthetic fibers are compatible with all concrete admixtures and performance enhancing chemicals.
Dispensing	SikaFiber®-148 Force is uniquely designed and packaged allowing it to be evenly dispersed through the matrix, ensuring no balling or pumping problems will occur. Can be added to the mix any stage during batching. Allow 5 minutes at mixing speed for fibers to disperse evenly throughout matrix.

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.

IMPORTANT CONSIDERATIONS

The addition of SikaFiber®-148 Force can cause a reduction in the concrete workability. We recommend correcting this loss not by adding more water, but by adjusting the mix to the required consistency with a suitable dosage of a Sika® Viscocrete®, SikaPlast® or Sikament® admixtures.

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

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.

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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