

## PRODUCT DATA SHEET

# SikaFiber<sup>®</sup>-080

(formerly MasterFiber<sup>®</sup> 080)

Polypropylene micro fiber, class IA according to EN 14889-2.

## DESCRIPTION

SikaFiber<sup>®</sup>-080 are 6 mm mono-filament polypropylene fibers for use in concrete and mortars.

## USES

According to EN 14889-2 this fiber is supposed to be used for other purposes in concrete, mortar and grout.

## CHARACTERISTICS / ADVANTAGES

- Minimizes the crack propensity due to plastic shrinkage.
- Improves fire resistance of concrete (anti-spalling effect), especially at short fiber length.
- Stabilizing effect in concrete mixes.
- Excellent resistance in alkaline and acidic environment.
- Provides rust free reinforcing solutions.
- Easy and safe to handle.
- No negative impact regarding machinery wear.

## APPROVALS / STANDARDS

This fiber is certified according to EN 14889-2.

## TECHNICAL INFORMATION

### Concreting Guidance

The standard rules of good concreting practice for production and placing must be observed when using SikaFiber<sup>®</sup>-080 in concrete. Refer to relevant standards.

Fresh concrete must be cured properly especially at high temperatures in Concreting Guidance order to prevent plastic and drying shrinkage. Use Sika<sup>®</sup> Antisol<sup>®</sup> products as a curing agent.

## PRODUCT INFORMATION

### Chemical base

Polypropylene

### Packaging

Micro fibers are generally available either in 30 x 0.6 kg degradable bags in carton box (18 kg), or 20 x 0.9 kg degradable bags in carton box (18 kg). For other packaging options, please contact us.

### Shelf life

48 months from date of production.

### Storage conditions

Stored in original packaging between +5°C and 30°C protected from humidity and direct sun light. Protect against fire.

### Fibre Type

IA

<b>Colour</b>	Colourless	
<b>Dimensions</b>	Diameter	~ 18 µm
	Length	~ 6 mm
<b>Density</b>	0,91 g/cm <sup>3</sup> .	
<b>Melting Point</b>	160 – 170 °C.	

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	0.6 – 3.0 kg/m <sup>3</sup> . Higher dosages are generally possible but substantial re-design of a given concrete mix design is required.
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## 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 CONSIDERATION

The addition of fibers to a concrete might decrease its consistency. This should not be compensated by adding water to the mix. The recommendation is to optimize the mix either by adapting the mix design or by adding a superplasticizer. In order to evaluate properly preliminary tests under practical conditions with regard to mixing, placing and curing are advisable. SikaFiber®-080 is compatible with other Sika admixtures.

For any further advice, please contact your local technical department.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### DISPENSING

Appropriate fiber dispersion can be achieved either by adding the fibers to a raw material feeding belt (ideally fibers first) or by adding the fibers via a sufficient dosing equipment directly into the mixer or ready mix truck to the already mixed concrete.

While processing attention shall be paid that fibers do not separate or agglomerate (e.g. during discharge to mixer), regarding the latter one special care should be taken that fibers are added to zones with sufficient shear. Our recommendation is to continue mixing for minimum 90-120 seconds after the addition of fibers. Very high fiber dosages may require higher mixing time in order to achieve sufficient fiber dispersion.

## LOCAL RESTRICTIONS

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

## 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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### Product Data Sheet

SikaFiber®-080

November 2024, Version 01.02

021408021010000176

SikaFiber-080-en-VN-(11-2024)-1-2.pdf