

PRODUCT DATA SHEET

SikaFiber®-8060 ST

STEEL FIBER

DESCRIPTION

SikaFiber®-8060 ST is a reinforcing material made of cold drawn steel wire fiber, with hooked and end glued in bundles. Introducing of adequate steel fibers into concrete would improve the mechanical properties of concrete such as ductility, flexural strength and crack resistance.

With this significant enhancement, steel fibers can be a substitute or combine with conventional steel bar reinforce meant to yield superior concrete performances. SikaFiber®-8060 ST complies with ISO 9001:2015 and EN 14889-1.

USES

SikaFiber®-8060 ST is typically used in such applications as:

- Slab on ground.
- Pre-cast segment tunnel lining.
- Cast in place.

- Tunnel repairs.
- Ground support.
- Slope stabilization.
- Retaining walls and soil nailing.
- Industrial flooring and rigid pavement.

FEATURES

SikaFiber®-8060 ST as a reinforcing material provides the following contributions:

- Allows concrete to follow the contours of the ground.
- The need to install mesh is eliminated and the decrease in time for which lifting equipment is needed results in reduction of cycle times and overall costs.
- Elimination of the difficult and dangerous job of installing mesh considerably increases safety on the work site.
- Increases the crack resistance, ductility, energy absorption and toughness of concrete.
- Uniformity multi-directional concrete reinforcement.

PRODUCT INFORMATION

Packaging	Non water-soluble bag of 20 kg/bag (120 bag/pallet)
Shelf life	If stored in dry conditions shelf life is 5 years
Storage conditions	The pallets should be protected against rain and snow. Do NOT stack pallet on top of each other.
Fibre volume content	Approx. 4600 pcs/kg
Appearance	Steel fiber with double hooked end / Glued

TECHNICAL INFORMATION

Tensile strength	1200 MPa ($\pm 7.5\%$ Avg)
Modulus of elasticity in tension	$\pm 210\,000$ MPa
Dimensioning	Length: 60 mm ($\pm 10\%$) Diameter: 0.75 mm ($\pm 10\%$) Aspect Ratio: 80

APPLICATION INFORMATION

Recommended dosage	At the rate of 10-40 Kg/m ³ of concrete. Test mixes should be carried out to determine optimum dosage.
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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

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

APPLICATION

SikaFiber®-8060 ST can be added to the mix at any stage during batching. Allow 3 to 5 minutes at mixing speed for fibers to disperse evenly throughout the matrix.

Trial mix prior to field application is recommended to achieve required workability for pumpable and flowable concrete. SikaFiber®-8060 ST is compatible with concrete mix incorporating ViscoCrete, ViscoFlow, SikaFume and other Sika's admixtures.

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.

PT. Sika Indonesia Head Office and Manufacturing

Jl. Raya Cibinong-Bekasi Km.20
Limusunggal-Cileungsi
Bogor 16820-Indonesia
Tel. +62 21 8230025, Fax +62 21
8230026



Product Data Sheet
SikaFiber®-8060 ST
March 2025, Version 01.01
021408011000000170

SikaFiber-8060ST-en-ID-(03-2025)-1-1.pdf

