

PRODUCT DATA SHEET

SikaFiber®-8060 CHE

Steel Fiber - Type I

DESCRIPTION

SikaFiber®-8060 CHE steel fibers are designed specifically for the reinforcement of concrete. SikaFiber®-8060 CHE is a cold drawn collated hooked end (CHE) steel fiber, to provide optimum anchorage within the concrete. SikaFiber®-8060 CHE steel fibers are specifically designed to meet or exceed the defined performance requirements.

USES

- Industrial slabs-on-ground
- Jointless slabs
- Tunnel segments
- Precast concrete
- High strength concrete applications
- Shotcrete applications

FEATURES

- Provides uniform multi-directional concrete reinforcement
- Increases crack resistance, ductility, energy absorption or toughness of concrete
- Improves impact resistance, fatigue endurance and shear strength of concrete
- High tensile strength fiber bridging joints and cracks to provide tighter aggregate interlock resulting in increased load-carrying capacity
- Provides increased ultimate load-bearing capacity which allows possible reduction of concrete section
- Requires less labor to incorporate into concrete than conventional reinforcement
- Offers economical concrete reinforcement solutions with greater project scheduling accuracy
- Ideally suited for hand or vibratory screeds, laser screeds and all conventional finishing equipment

CERTIFICATES AND TEST REPORTS

SikaFiber®-8060 CHE follows the requirements of ASTM A820 /A 820M - 04, Type I and EN 14889-1

PRODUCT INFORMATION

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| Composition | Steel |
| Packaging | SikaFiber®-8060 CHE fibers are available in 20 kg paper bags or 1,000 kg bags on a pallet. Fiber quantity is approximately 4,600 pieces/kg. |
| Appearance and colour | Collated hooked end steel fiber. Steel wires are collated by water soluble glue. |
| Shelf life | 5 years if stored in dry conditions |
| Storage conditions | The product should be stored in original, unopened and undamaged sealed packaging in dry conditions. Do not stack pallets on top of each other. |

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| Dimensions | Fiber length | 60 mm |
| | Fiber diameter | 0.75 mm |
| | Aspect Ratio | 80 |

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| Length | Total fiber length is approximately 288 m/kg |
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TECHNICAL INFORMATION

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| Tensile strength | 2,300 MPa ± 170 MPa |
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APPLICATION INFORMATION

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| Recommended dosage | The dosage of the SikaFiber®-8060 CHE will vary according to the type of application and the performance requirements of the project. Standard recommended dosage rate of SikaFiber®-8060 CHE is between 10–40 kg/m ³ of concrete. Dosages outside the recommended range can be used to meet project specific requirements. In this case, please contact your local Sika representative for technical support. |
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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

MIXING

SikaFiber®-8060 CHE can be ribbon feed directly to the concrete mixing system after the batching of the ingredients and mixed for 4 to 5 minutes or 70 revolutions. The addition of SikaFiber®-8060 CHE at the recommended dosage rates may decrease the slump; however, additional water should not be added. Only a water reducing or high range water reducing admixture should be used to adjust concrete to the desired workability.

APPLICATION

The addition of SikaFiber®-8060 CHE at the normal recommended dosage rate does not require any mix design or application changes. The fiber concrete can be mixed, pumped or placed using conventional equipment.

APPLICATION METHOD / TOOLS

SikaFiber®-8060 CHE can be used in power/hand troweled concrete, colored and broom finished concrete. Fiber reinforced concrete can be finished by most finishing techniques as indicated in ACI-302. Proper timing and workmanship are important when using a steel fiber to insure the fiber is not elevated at the surface.

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.

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.



Product Data Sheet

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