BUILDING TRUST

PRODUCT DATA SHEET

SikaFiber®-6535 CHO

Steel fibre reinforcement for concrete

DESCRIPTION

SikaFiber®-6535 CHO is a composite material combining concrete and discontinuous discrete fibres that are uniformly distributed throughout the concrete to create a 3-dimensional system of reinforcement. The inclusion of fibres in concrete and other cementitious materials, such as mortars and renders.SikaFiber®-6535 CHO are designed specifically for the reinforcement of Ultra High Performance Concrete (UHPC). SikaFiber®-6535 CHO steel fibers can be used in DOT Applications.SikaFiber®-6535 CHO is a Type 1 steelfiber, to provide optimum tensile strength and fiber count within the concrete. It steel fibers are specifically designed to meet or exceed the defined performance requirements.

USES

SikaFiber®-6535 CHO improves many material properties
including:

- UHPC Applications
- toughness
- crack resistance
- strength
- reducing explosive spalling
- reduced permeability
- impact / shatter resistance
- fatigue resistance

CHARACTERISTICS / ADVANTAGES

SikaFiber®-6535 CHO is often the first-choice reinforcement
for many important applications including
slab on ground or grade, composite metal decking and tunnel linings. It is often used as a cost-effective, easyto-
use alternative to traditional steel reinforcement, or to enhance other properties.

APPROVALS / STANDARDS

- ISO 9001-2015
- ISO 14001-2015
- ISO 45001-2018
- Conforms to ASTM C 1116/C 1116M, Type I steel
- fiber reinforced concrete
- Conforms to ASTM A820 /A 820M - 04, Type I cold
- drawn wire

PRODUCT INFORMATION

Fibre Type	SikaFiber®-6535 CHO is Type 1 steel fiber.
Packaging	20 kg
Shelf Life	If stored in dry conditions shelf life is 5 years.
Storage Conditions	Product must store in a dry area between 5°C and 35°C. Protect from direct sunlight without stacking.
Density	7,850 kg/m³

Length	35 mm
Fibre Volume Content	4,600 fibres/ kg
Diameter	0.5 mm
Tensile Strength	1,200 N/mm²
Modulus of Elasticity in Tension	200,000 N/ mm²
Recommended Dosage	10 kg/m³

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.

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.

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. 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.

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