

IB-SDF

Steel wire fibre

Steel wire fibre with end anchorage for the manual production of a steel wire fibre carpet in the quick-mix IB steel system

Steel fibres with end anchoring acc. EN 14889-1

- tested according to EN 14889-1
- Application thickness in the quick-mix IB steel system: 20 – 45 mm
- Tensile strength: 1350 N/mm²



APPLICATIONS

- specially developed for the manual production of a steel wire fibre carpet in the quick-mix IB steel system
- for the infiltration of the quick-mix IB-HIM high-performance infiltration mortar
- for strengthening floors of all kinds in the quick-mix IB steel system
- in combination with the quick-mix IB-HIM high-performance infiltration mortar, this results in a suitable substrate for a variety of surface coverings in the quick-mix IB steel system
- for interior and external use

PROPERTIES

- usable in a force-locked combination with the IB-HIM high-performance infiltration mortar
- made of steel
- normal strength

SUBSTRATE

- The **substrate in the quick-mix IB steel system** must be load-bearing and clean-swept. Existing floor joints up to 20 mm, cracks, breakouts, etc. are reworked with the system without further preparatory work. To prevent the dish-shaped curvature of the entire surface, a quick-mix VBA connecting anchor is installed approx. every 4 sqm in accordance with the technical data sheet. The number of connecting anchors in doors and gates is to be increased where appropriate. Alternatively, cavities and breakouts in the substrate can be closed quickly in advance with a cement mortar / cement screed, e.g. strasser ZFE-S fine cement screed. Moisture / residual moisture in the substrate is not relevant.

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PROCESSING

Temperature	<ul style="list-style-type: none">■ Do not process at air, material and substrate temperatures below +0 °C.
Processing	<ul style="list-style-type: none">■ Spread steel wire fibres manually in appropriate layer thickness on the existing load-bearing substrate.■ We recommend wearing safety gloves to protect against mechanical risks.■ For the manual spreading of the steel wire fibres with a healthy working posture, we recommend that the steel wire fibres be kept on a rollable work table.■ The steel wire fibre carpet created must be infiltrated within 3 days with the quick-mix IB-HIM high-performance infiltration mortar.
Notes	<ul style="list-style-type: none">■ The steel wire fibre carpet created must be kept frost-free until it is completely infiltrated by the quick-mix IB-HIM high-performance infiltration mortar.■ Steel wire fibres of the quick-mix IB steel system that are still protruding must be mechanically removed after hardening of the quick-mix IB-HIM high-performance infiltration mortar.■ For later use, the substrate system of the quick-mix IB steel system created, consisting of the quick-mix IB-SDF steel wire fibres and the quick-mix IB-HIM high-performance infiltration mortar, must be given a top covering approved in the quick-mix IB steel system (e.g. strasser IB 20 industrial floor).■ For further information on creating a substrate system in the quick-mix IB steel system, please refer to the technical data sheet of the quick-mix IB-HIM high-performance infiltration mortar.

PACKAGING

- 20 kg/sack

STORAGE

- Store sacks appropriately and in dry conditions on pallets.

QUANTITY REQUIRED / YIELD

- Consumption: approx. 10 kg/m² per 10 mm height of the steel wire fibre carpet

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TECHNICAL DATA

Product type	Steel fibres with end anchoring
Material	Steel, normal strength
Cross-section	round
Ratio L/d	approx. 60
Processing temperature	≥ +0 °C
Tensile strength	1350 N/mm ²
Number of fibres	approx. 21,600 fibres/kg

Compressive strengths in the IB steel system:

- ≥ 35 N/mm² (1d)
- ≥ 65 N/mm² (7d)
- ≥ 90 N/mm² (28d)

Flexural strengths in the IB steel system:

- ≥ 12 N/mm² (1d)
- ≥ 15 N/mm² (7d)
- ≥ 20 N/mm² (28d)

Modulus of elasticity (dynamic) in the IB steel system:

48,761 N/mm²

All data are average values which have been obtained under laboratory conditions in accordance with relevant test standards and application trials at +20°C and 65% relative humidity. Deviations are possible under practical conditions.

SAFETY AND DISPOSAL INSTRUCTIONS

- Completely empty and recycle the packaging.
- Dispose of the material in accordance with the official regulations.

GENERAL INFORMATION

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.