PRODUCT DATA SHEET

SikaFiber®-2200 CB

Synthetic Macrofiber with Chemical Bond for Low Deflection Applications

DESCRIPTION

SikaFiber®-2200 CB product is a chemically enhanced synthetic macrofiber that exhibits superior bonding to cementitious matrices, thus increasing the post-crack loadcarrying capacity and toughness of fiber-reinforced concrete. The superior performance of SikaFiber®-2200 CB product results from a novel polymer resin technology that provides engineered chemical bonding, a technology breakthrough from Master Builders Solutions. Through this advanced technology and a highly engineered fiber architecture, the bonding capabilities of SikaFiber®-2200 CB product far exceed that of the other commercially available polyolefin-based synthetic macrofibers.

USES

- Provides post-crack performance equal to that obtained with typical, commercially available synthetic macrofibers at a reduced dosage
- Improves placement and finishing characteristics compared to traditional synthetic macrofibers
- Eliminates the need for welded-wire reinforcement (WWR) and conventional steel bars as secondary reinforcement, depending on the application
- Utilizes an advanced packaging system that improves dispersion, reduces storage footprint and increases bags per pallet, thus optimizing pallet's capacity
- Reduces construction time and overall labor and material costs

For use only in slab-on-ground and the other applications listed in the Applications section of this data sheet. Consult Sika Techical department, if the use of SikaFiber®-2200 CB product in applications other than those listed on this data sheet are being considered. This product may not be mixed with other synthetic macrofibers or used for any other application.
Applications Recommended for use in:
- Cast-in-place and wet precast concrete
- Slab-on-ground
- Bridge decks
- Concrete pavements
- White topping and overlays

FEATURES

SikaFiber®-2200 CB product is chemically enhanced to provide superior performance as compared to typical high performing synthetic macrofibers. SikaFiber®-2200 CB product is engineered for use as secondary reinforcement to control shrinkage and temperature cracking and to provide performance equivalent to that of other commercially available synthetic macrofibers, at a reduced dosage. This reduced dosage will result in improved handling properties in the fresh state, as well as, improved finishability. SikaFiber®-2200 CBproduct is created specifically to replace welded-wire reinforcement and No. 3 and No. 4 (10 mm and 13 mm) reinforcing bars that are typically used as temperature and shrinkage reinforcement.

PRODUCT INFORMATION

Fibre type	Embossed
Packaging	SikaFiber®-2200 CB product is packaged in pre-weighed 5.0 lb (2.3 kg) shreddable bags to ensure optimum dosing and homogeneous distribution of the product.
Colour	White, translucent
Shelf life	12 Months from the date from the date of production.
Storage conditions	SikaFiber®-2200 CB product should be stored at temperatures below 140 °F (60 °C). ▪ Avoid storing near strong oxidizers and avoid sources of ignition ▪ Use caution when stacking to avoid unstable conditions ▪ Store in a sprinkled warehouse
Density	0.91
Length	2.1 in. (54 mm)
Melting point	320 °F (160 °C)
Tensile strength	85 ksi (585 MPa)
Resistance to alkalinity	Excellent
Water absorption	Nil
Recommended dosage	The recommended dosage range of MasterFiberSikaFiber®-2200 CB product is 2.5 lb/yd3 to 12 lb/yd3 (1.5 to 7.2 kg/m3) depending on the application. The recommended dosage range for slab-on-ground applications is typically 3 to 5 lb/yd3 (1.8 to 3 kg/m3). Because of variations in concrete materials, job site conditions and/or applications, dosages outside of the recommended range may be required. In such cases, contact your local sales representative. Mixing: SikaFiber®-2200 CB product is most efficiently dispersed when introduced with the coarse aggregate prior to the addition of cement, or if this is not possible, after the batching cycle has been completed. Mixing time will vary based on when the fibers are introduced into the mixer. The normal range of mixing time is 3 to 5 minutes, but no less than 70 mixing revolutions. The longer mixing time is preferred when the fibers are added after all of the standard ingredients have been introduced and mixed.

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

For information and advice on the safe handling, storage
and disposal of chemical products, users shall
refer to the most recent Safety Data Sheet (SDS) containing
physical, ecological, toxicological and other
safety-related 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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