

PRODUCT DATA SHEET

SikaFiber® Force PP-55 / RAD55s

Polyolefin macro-synthetic fibres for fibre reinforced shotcrete and concrete

DESCRIPTION

SikaFiber® Force PP-55 / RAD55s is a macro structural synthetic fiber that delivers optimum performance in highly corrosive environments. It is used in precast, slabs on ground among many other applications. Higher Re3 values (equivalent flexural strength ratio based on ASTM C1609 testing) are achieved in slabs on grade when using this fiber.

USES

- Fibrecrete/shotcrete
- Ground supported slabs
- Precast
- Sea defence
- Airport & pavements
- Slope stabilisation

CHARACTERISTICS / ADVANTAGES

- Non-magnetic, rustproof and alkali proof
- Less balling effect for difficult mixes
- No site waste or disposal issues.
- Saves time and storage space in comparison to traditional mesh
- Uniquely designed and packaged allowing it to be evenly dispersed ensuring no balling or pumping problems will occur.

PRODUCT INFORMATION

Chemical Base	Polyolefin Polymer
Packaging	5 Kg boxes- fibers wrapped in water soluble plastic pucks (Parallel Packed) in biodegradable boxes. Environmentally friendly recycled packaging.
Shelf Life	NA
Storage Conditions	Store protected from the weather.
Dimensions	Fibre length 55 mm Mean width 1.37 mm Mean thickness 0.34 mm
Density	0.92 g/cm ³
Melting Point	170° C
Tensile Strength	550 + MPa
Water Absorption	Nil
Resistance to Alkalinity	Excellent

Recommended Dosage5-9 kg/m³**Compatibility**

SikaFiber® Force PP-55 / RAD55s macro-synthetic fibers are compatible with all concrete admixtures and performance enhancing chemicals.

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.

FURTHER DOCUMENTS**Specification clause**

Fibers for concrete shall be SSikaFiber® Force PP-55 / RAD55s polyolefin high performance macro-synthetic fiber conforming to EN 14889-2: 2006 Class II and manufactured specifically for the reinforcement of concrete. SikaFiber® Force PP-55 / RAD55s macro-synthetic fibers shall be mixed at the batch plant, at the recommended rate of 5-9kg per cubic metre, and mixed for sufficient time (minimum 5 minutes) to ensure uniform distribution of the fibers throughout the concrete mix.

LIMITATIONS

The addition of SikaFiber® Force PP-55 / RAD55s can cause a reduction in concrete consistency. We recommend correcting this loss, not by adding more water, but by adjusting the mix to the required consistency with a suitable dosage of ViscoCrete® or SikaPlast® admixtures.

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.

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.

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