

PRODUCT DATA SHEET

SikaFiber®-25 AE

POLYPROPYLENE FIBER FOR CONCRETE

DESCRIPTION

SikaFiber®-25 AE is a high quality, 100 % virgin polypropylene fiber designed to reduce the occurrence of plastic shrinkage and plastic settlement cracking whilst enhancing the surface properties and durability of a cementitious matrix. Suitable for use in hot and tropical climatic conditions.

USES

SikaFiber®-25 AE is used to prevent micro-cracking due to plastic and drying shrinkage in cementitious systems such as:

- Concrete
- Shotcrete
- Slab on grade
- Industrial floor slabs
- Water retaining structures

- Precast concrete
- Stamped concrete
- Pavements
- Composite decks

FEATURES

- Controls and inhibits crack formation in concrete
- Reduces plastic shrinkage and settlement cracking
- Reduces future repair costs in shotcrete
- Improves the ability to apply greater thicknesses in a single pass
- Reduces rebound
- Enhances early age crack control
- Reduces line pressure in spray pumps

CERTIFICATES AND TEST REPORTS

SikaFiber®-25 AE complies with the requirements of ASTM C-1116/C116M, Type 3

PRODUCT INFORMATION

Composition	100 % virgin polypropylene	
Packaging	1.0 kg water soluble bags (Other size packaging is available on request)	
Shelf life	12 months from date of production if stored properly	
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight and frost.	
Density	0.91–0.93 kg/l (+25 °C)	
Dimensions	Fiber Length	~25 mm
	Fiber Diameter	~35 µm
Melting point	~117 °C	
Ignition temperature	~580 °C	
Appearance	White fibers	

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using SikaFiber®-25 AE in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® products as a curing agent or apply wet hessian.
Tensile strength	≥ 500 MPa
Modulus of elasticity in tension	3.5–4.8 GPa
Elongation	25–40 %
Chloride content	Nil

APPLICATION INFORMATION

Recommended dosage	~0.6 kg/m ³ of concrete. Other dosages may be used depending on the mix design, raw materials, climatic conditions, project specifications and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.
Compatibility	SikaFiber®-25 AE may be combined with all types of Portland cement, concretes containing pozzolanic materials such as: GGBS, PFA, micro-silica and the following Sika products ranges: ▪ Sikament® ▪ Sika® ViscoCrete® ▪ SikaPlast® ▪ Sika® Aer ▪ Sika® Plastiment®
Dispensing	Plant mixing: SikaFiber®-25 AE should be added to the mixer after all other ingredients and water. Use a mixing time that ensures uniform dispersion of the fiber. Truck mixing: SikaFiber®-25 AE is best added in the batching plant mixer; although in cases where this may not be possible addition in the truck can be done. The fiber should be added first with ~30 % of the mixing water. Add the other ingredients, the remaining mixing water and continue mixing for a further few minutes at full speed to ensure uniform dispersion of the fiber.

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.

IMPORTANT CONSIDERATIONS

For fire rated concrete the minimum recommended dosage is 2 kg/m³ or 0.5 % by weight of binder, whichever is higher. Contact Sika Technical Services for advice.

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

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 International Chemicals LLC
- Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS:
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV:
- Sika UAE LLC (Branch)
ISO 9001 – SGS:
- 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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