

Voga Fiber

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VOGEL SYSTEMS Technical data sheet

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Product: **Voga Fiber**

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1. Identification

Product identifier

Voga Fiber

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Product for construction chemicals

Recommended use: for industrial and professional users



Details of the supplier of the safety data sheet

Company:

VOGEL SYSTEMS

Operating Division Construction Chemicals

E-mail address: info@vogel-systems.de

Emergency telephone number

International emergency number

polypropylene Synthetic fiber for Concrete

DESCRIPTION

Voga Fiber is a monofilament polypropylene Synthetic fiber mesh which is introduced in concrete to inhibit the formation of plastic shrinkage cracking .

APPLICATION FIELDS

1. Road ways and highways.
2. All concrete structure.
3. Airports run ways.
4. Canals and small areas.
5. Cars parks and Cars service station.
6. Pattern Imprinted Concrete.
7. Bridges.
8. Extruded Concrete.
9. Agricultural Areas.

ADVANTAGES

1. Reduced plastic settlement & shrinkage cracks .
2. Improves concrete cohesion.
3. Improves impact and fatigue resistance.
4. Reduced bleeding & significant lower brittleness .
5. Improves durability.
6. Alkali proof, easy to use.
7. Reduces permeability.
8. Improves freeze & thaw resistance .

APPLICATION INSTRUCTIONS

▪ Surface Preparation

- All substrates must be sound, clean, dry and free from grease, oils and dirt.
- Steel surfaces should be cleaned back to bright steel.
- The surfaces should be dry and free from dust and loose materials

• Mixing

- Synthetic polypropylene Fibers for Concrete
- How to Use **Voga Fiber** fibers are added either to the dry ingredients before mixing or to the pre-mixed paste in the mixer just before the pouring process begins. In both cases, mixing for a few minutes is sufficient to achieve good fiber dispersion.
- If mixing in the mixing plant, the fibers should be the first component, along with half of the mixing water. After adding all other components, including the remaining mixing water, the concrete should be mixed for at least 70 revolutions at full speed to ensure uniform fiber dispersion.
- It is preferable to add the fibers in the mixing plant, although in some cases this may not be possible, and on-site addition will be the only option.
- If mixing on-site, a minimum of 70 drum revolutions is strongly recommended.

TECHNICAL DATA

Product characteristics	
Absorption	zero
Tensile strength	450 -550 MPA
Thermal & electrical conductivity	LOW
Melting point	185 %
Color	Natural
Fiber length	6 -18 mm
Diameter	18 % micron nominal
Moisture Content	14-15 %

CONSUMPTION

Estimated consumption for Voga fiber packs: 0.60 _ 0.90 kg/m²

CLEANING

Tools and equipment should be cleaned, immediately after use, with thinner.

Once product cures, this can only be removed by mechanical means.

PACKAGING

Voga Fiber G :- 0.9 Kg of fibers is packed in either plastic or degradable paper bags, where one bag of fibers is the required amount of product for one cubic meter of concrete. Bagged fibers are placed in boxes for ease of handling. Fibers can also be ordered in bulk quantities and packed in boxes of 20-500 Kg.

SAFETY AND HEALTH

Voga Fiber G is a non-toxic but direct contact with skin and eyes must be avoided .

- Use rubber gloves and safety goggles when handling, mixing and applying the product .
- If ingested seek medical advice.

STORAGE

Store in a cool, dry, covered place, protected from moisture, frost and direct sunlight, at suitable temperatures.