Voga Fiber steel

VOGEL SYSTEMS Technical data sheet
Date /Revised: 22.09.2020
Product: **Voga Fiber steel**

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1.Identification

Product identifier
Voga Fiber steel

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

steel Synthetic fiber for Concrete

DESCRIPTION

Voga Fiber steel is a monofilament polypropylene Synthetic fiber mesh which is introduced in concrete

o inhibit the formation of plastic shrinkage cracking .

APPLICATION FIELDS

1. Road ways and highways.
2. All mega-concrete structure.
3. Pipelines.
4. Tunnels and mining works.
5. Hydraulic dams.
6. Blast resistant structures.
7. Industrial plants.
8. Port and marine engineering.
9. Railways.

ADVANTAGES

1. Prevents significant load-related shrinkage cracks in the cartridge.
2. Enables the creation of spaces up to 200 m² without joints.
3. Reduces the cost of concrete, as the concrete course thickness should not exceed 15 cm.
4. Reduces the cost of concrete, as it does not require equipment or an on-site blacksmith shop.
5. Save time for preparing and raising the steel at the casting sites.
6. Homogeneous reinforcement
7. Increase energy absorption and load bearing capa-city of concrete
8. Safe and easy to use

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 steel Fibers for Concrete
- How to Use **Voga Fiber steel** fibers are Add Voga steel fiber directly to the mixing system during or after mixing the ingredients, before mixing at high speed.

- The mixing time will be slightly increased by adding Voga steel fiber. Mix thoroughly for at least 5 minutes at high speed.

- Do not add the fiber directly to the mixing water.

TECHNICAL DATA

Product characteristics	
Chemical base	High tensile , cold draw , hooked end , steel wire
Tensile strength	1200 N / mm2
Height length	2 -2,7 mm
Middle length	3,8 ± 2 mm
Color	Gray
Fiber length	50 ± 5 mm
Diamter	1 ± 0,05 mm

CONSUMPTION

Estimated consumption for Voga fiber packs : 20 -30 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

Fuga steel fiber (25 kg) is packaged in biodegradable paper bags, and one bag of fiber is sufficient for one cubic meter of concrete. The packaged fiber is placed in boxes for easy handling. Fiber can also be ordered in bulk and packaged in boxes weighing between 25 and 500 kg.

SAFETY AND HEALTH

Voga Fiber steel 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.