

FV1 – REINFORCING FIBRE

Designation: FV1

Data Sheet No. 415

- Product:** FV1 is a special synthetic fibre made from isotactic polypropylene.
- Use:** To create poly-dispersion micro reinforcement in a foam concrete environment to achieve higher tensile and flexural strengths and a reduced tendency of the foam concrete to produce micro cracks.
- Composition:** Polypropylene
- Description:** Fine staple giving the impression of white mass if it is in a pile.
Forms a dispersion in water easily.
Produces a homogenous mixture with other foam concrete components.

Physical and chemical properties:

Cross-section:	Circular
Length density:	5.0 - 8.0 dtex
Fibre diameter:	25 to 33 x 10 ⁻⁶ m
Length:	12 mm
Surface treatment:	Preparation for good dispersion in water
Resistant:	Against all inorganic acids and bases Against organic solvents
Ecology:	Ecology-friendly

Processing: In the MS 1000 machine type – see the SIRCONTEC Data Sheet No. 011.1, or similar.

Dosage: 0.8 - 2 kg per 1 m³ of foam concrete

Reinforced foam concrete production procedure:

1. The whole FV1 dose is poured into the blender upon mixing water dosing.
2. Dry components are dosed in a sequence after short mixing of water with fibre.
3. Technical foam is filled into the blender when cement milk is produced.

Note:

When using FV1, the mixing water quantity must be adjusted so that the required liquidity of fresh foam concrete is achieved.

Reinforced foam concrete processing procedure:

Processing is simple, like for SIRCONTEC non-reinforced concrete.

Quality control:

FV1 production is controlled by a system according to EN ISO.

Quality control of foam concrete being produced is controlled by Control Procedures provided by SIRCONTEC together with the MS 1000 machine.

Packing: Polyethylene bags, cardboard boxes.
Weight about 20-25 kg per packing.

Storage: FV1 can be stored for 6 months in sealed packages stored in a locked room providing protection against weather effects and damages.
FV1 must be stored separated from foodstuffs and feedstuffs.

Valid: from 1.12.2014