ProFiber® 100

DESCRIPTION:

ProFiber® 100 is a unique monofilament polypropylene fiber with a diameter of 3 denier ± 0.2 denier. There are approximately 200 million individual 3/4" long fibers in one pound of product. This means there are approximately 100 million individual fibers in the 0.5 pcy recommended dosage as a plastic shrinkage crack reinforcement. Reducing plastic concrete shrinkage cracking is a very important element in enhancing the long term durability of the concrete. **ProFiber® 100** passed all of the ICC ES AC32 reinforcement requirements at 0.5 pcy.

ProFiber® 100 is high tensile strength, high modulus of elasticity, ultra-thin monofilament homopolymer polypropylene fibers designed to quickly distribute uniformly throughout the concrete matrix. At the engineered dosage level of 0.50 pcy, **ProFiber® 100** is a stellar plastic shrinkage reinforcement. Furthermore, **ProFiber® 100** is the ideal plastic shrinkage reinforcement component in steel fiber and microsynthetic fiber blends and macrosynthetic fiber and microsynthetic fiber blends.

APPLICATIONS:

- Residential slabs-on-ground
- Commercial slabs-on-ground
- Stucco
- Dry packaged cement based products
- Precast products
- Pools and pool decks
- Water retention tanks

GENERAL:

ProFiber® 100 is highly modified monofilament polypropylene fiber with excellent plastic shrinkage reinforcement properties. **ProFiber 100®** dramatically reduces plastic shrinkage cracks as well as plastic settlement with the engineering dose of 0.50- pcy. The competition requires more than 1.0- pcy to achieve the same reduction in plastic shrinkage cracking.

ProFiber® 100 is packaged in pre-weighed degradable bags to ensure optimum dosing and homogeneous distribution of the product. Typically no modifications to the mix design are required when the product is used at the engineering dosage of 0.50 pcy. **ProFiber® 100** fibers can be introduced into the mixing system at any time except when the cement is being introduced. Mixing time will vary based on when the fibers are introduced to the mixer. The normal range is 3-5 minutes, with the higher number preferred when the fibers are added after all of the standard ingredients have been introduced and mixed.

ProFiber® 100 is not a replacement for structural steel. It will not replace any of the steel that is used in calculating the load carrying capacity of the concrete element.

ProFiber® 100

ENGINEERING SPECIFICATIONS:

ProFiber® 100 is uniquely developed plastic shrinkage reinforcement for concrete. With approximately 100 million, 0.75” long fibers in the engineered dose of 0.50 pcy, **ProFiber® 100** is capable of actually reducing plastic shrinkage cracking by up to 25% more than conventional monofilament fibers at 1.0 pcy dosage rates. **ProFiber® 100** is compatible with admixtures and additives that meet the applicable ASTM specifications. **ProFiber® 100** meets the requirements of ASTM C1116, Section 4.1.3 and Note 2. **ProFiber® 100** is listed in ICC ES Evaluation Report ESR-1699 at 0.5 pcy as a plastic shrinkage cracking reinforcement per Section 3.1.1 of AC32.

Premiere™
Concrete Admixtures

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