

Description

Forta Mighty-Mono is an easy to finish, fully oriented, 100% virgin homopolymer polypropylene monofilament fibrous reinforcement. This fibre offers long term durability, and increased impact resistance. MIGHTY-MONO® is used to reduce plastic and settlement shrinkage. Non-corrosive, non-magnetic, chemically inert, and 100% alkali proof.

Application

Forta Mighty-Mono is primarily used in concrete applications such as:- overlays/toppings, kerbs, driveways, pavements, basement floors, garage floors, coloured concrete, and where the objective is to control plastic shrinkage cracking whilst improving basic durability properties. Requires no mix design or placement changes.

The presence of Forta Mighty-Mono in a concrete mix also improves fire resistance.

Benefits

The addition of Forta Mighty-Mono will improve the following properties of any given concrete mix:

- Increased impact resistance
- Plastic shrinkage crack reduction
- Fire resistance

Standards

Forta Mighty-Mono meets the requirements of ASTM C-1116 Standard Specification for Fibre Reinforced Concrete and Shotcrete.

Addition Rates

Dosage rates may vary depending on the mix, aggregate type and the desired properties, and should be determined by site trials.



As a guide, a typical dosage rate will be approximately 0.6kg (one bag) per cubic metre of concrete.

Forta Mighty-Mono may be added at any point during the mixing cycle. Four to five minutes may be necessary for full dispersion.

Typical Properties

Nature

Polypropylene fibres

Appearance

Monofilament fibre

Density

0.91 gcm⁻³

Tensile Strength

620-758 MPa

Lengths

6mm and 13mm (other lengths may be available on request)

Absorption

Nil

Acid/Alkali resistance

Excellent

Handling

Forta Mighty-Mono is an inert, non-hazardous product, but inhalation of the fibres should be avoided.

Refer to the Material Safety Data Sheet for Forta Mighty-Mono for full details.

Packaging

Forta Mighty-Mono is packed in 0.6kg mixer ready bags, 30 bags per box, 12 boxes per pallet. Other package sizes may be available on request.

Forta Mighty-Mono is a trademark of the Forta Corporation, Grove City, Pennsylvania, USA.

Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

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