

CCI STRANDZ MSF 450

POLYPROPYLENE MICRO SYNTHETIC FIBERS



PRODUCT INTRODUCTION

CCI StrandZ MSF 450 is a filament polypropylene fiber manufactured from 100% virgin polypropylene resins. MSF450 are primarily used as a plastic-shrinkage reinforcement in concrete. The fibers measurably reduce plastic settlement, while offering excellent distribution and finishing abilities. MSF450 also extends service life of the concrete by enhancing impact and surface abrasion resistance.

PRODUCT APPLICATION :

- **Sidewalks**
Controls plastic shrinkage cracking, enhances surface durability.
- **Decks**
Improves toughness and resistance to cracking from thermal variation and vibration.
- **Patios**
Minimizes shrinkage cracks and surface defects in exposed concrete areas.
- **Residential driveways**
Increases wear resistance and service life of daily-use concrete surfaces.
- **Pool decks**
Reduces micro-cracking and improves slip-resistant surface finishing.
- Extrude curbs and gutter
Provides better cohesion and crack control during form setting and extrusion.
- **Basement and garage floors**
Enhances resistance to plastic shrinkage and early thermal cracking in enclosed slabs.
- **Concrete / Cement / Gypsum / Stucco**
Widely used in plastering works, mortars, and cementitious products for crack resistance.



FEATURES & BENEFITS

- Uniform distribution throughout the concrete mix
- Excellent finishing abilities
- Excellent reduction in plastic shrinkage and settlement cracking
- Measurably reduces permeability, thus increasing freeze-thaw durability
- Increases concrete durability – including impact and abrasion resistance and fatigue strength

TECHNICAL DATA:

Property	Value
Tensile Strength	≥600 MPa
Modulus of Elasticity	3.45 GPa
Diameter	25–40μm
Melting Point	160°C
Density	0.91 g/cm ³
Length	2–50 mm
Acid & Alkali Resistance	Excellent
Alkali Resistance	Excellent

DOSAGE:

Dosage is dependent on the application and regular dosage rate of 0.65 kg to 5 kg per cubic meter.

SIZE OF PACKAGE

CCI StrandZ MSF 450 fibers can be packaged into 2.5kg or 5kg paper box.

Legal Notes: The information and recommendations relating to the application and end-use of CCI Chemicals products are provided in good faith based on CCI Chemicals' current knowledge and experience of the products, provided they are properly stored, handled, and applied under normal conditions in accordance with CCI Chemicals' recommendations. However, due to variations in materials, substrates, and actual site conditions, no warranty, whether express or implied, including any warranty of merchantability or fitness for a particular purpose, nor any liability arising from any legal relationship whatsoever, can be inferred from this information, any written recommendations, or any other advice offered. User must test the product's suitability for the intended application and purpose. CCI Chemicals reserves the right to change the properties of its products at any time. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned copies of which will be supplied on request.