MicroPAN 12-3-6

POLYACRYLONITRILE MICROFIBER

CONCRETE FIBER TECHNOLOGIES

PRODUCT INFORMATION

PACKAGING

1.0 lb (0.45kg) degradable bags. The bags are packaged into cartons and palletized. Additional and special packaging configurations, including bulk, are also available upon request.

SHELF LIFE

3 years in original, unopened package

STORAGE CONDITIONS

Should be stored in a dry warehouse. Protect product from the rain.

SPECIFICATIONS/COMPLIANCES

ASTM C1116
ASTM D7508
ASTM C1579
ICC Acceptance Criteria AC32

TECHNICAL INFORMATION

Material: 100% Polyacrylonitrile (PAN)

Specific Gravity: 1.14

Tensile Strength: 900 MPa

Typical Dosage Rates:
0.5 to 1.0 lb/yd^3 Dosages outside the recommended dosage range can be used to meet project specific requirements.

Available Lengths:
1/2” (12 mm)

Melt Point: 445 deg F (229 deg C)

Water Absorption: Negligible

Acid and Alkali Resistance: High

PRODUCT DESCRIPTION

MicroPAN 12-3-6 is a synthetic homopolymer Polyacrylonitrile microfiber for concrete that complies with ASTM C1116 (Standard Specification for Fiber Reinforced Concrete) and is specifically designed to help mitigate the formation of plastic shrinkage cracking and settlement cracking in concrete. Typically used at a dosage rate of 0.5 to 1.0 lb/yd^3. MicroPAN 12-3-6 microfibers have demonstrated a significant reduction in plastic shrinkage cracking up to 75% compared to plain concrete. Additionally, MicroPAN 12-3-6 complies with relevant sections for plastic shrinkage of the International Code Council (ICC) Acceptance Criteria AC32 for synthetic fibers and ASTM C1579.

CHARACTERISTICS / ADVANTAGES

FEATURES & BENIFITS

- Reduces plastic shrinkage cracking
- Improves impact, shatter, durability and abrasion resistance
- Offers a tensile strength of 900 MPa.
- Promotes uniform bleed and reduces bleed water Inhibits and controls the formation of intrinsic cracking in concrete
- Increases cohesion and reduces segregation
- Reduces freeze/thaw damage

PRIMARY APPLICATIONS

- Slabs-on-grade, sidewalks, driveways, parking lots, curb work, overlays and toppings
- Footings, foundations and walls
- Roads, Pavements and Composite steel deck
- Stucco, Precast, and Shotcrete applications

ENVIROMENTAL INFORMATION

MicroPAN 12-3-6 is made from reclaimed and recycled Polyacrylonitrile (PAN) material, originally sourced from the carbon fiber industry as a precursor for carbon fiber production. It meets the standards set by the EPA for sustainable and eco-friendly products and services.

PRECAUTIONS/LIMITATIONS

The addition of fibers may result in a slight reduction in the measured slump of the concrete. This can be countered by incorporating a water-reducing admixture. Fibers should not be added to "zero-slump" concrete. Ensure the concrete slump is at least 3" (80 mm) before adding any fibers. material. Fibers may also be added in loose form to aggregate charging devices.

DIRECTIONS FOR USE

MicroPan 12-3-6 microfibers can be added to the concrete mixture at any time prior to placement of the concrete. It is generally recommended to add any fiber material to the concrete mixer during batching. Fibers must be mixed with concrete for a minimum of five (5) minutes at maximum mixing speed, depending upon the mixer type, to ensure complete dispersion and uniformity.

CLEAN UP

Loose fiber material may be disposed in proper receptacles for refuse. Finishing equipment with fibers embedded in concrete should be thoroughly cleaned.

LEGAL DISCLAIMER

KEEP OUT OF REACH OF CHILDREN

- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY
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