

# ProFiber® Max

## DESCRIPTION:

**ProFiber®-Max** is a blend of a macrosynthetic fiber, ProFiber S and a microsynthetic fiber, ProFiber MFP. Both of these components of **ProFiber®-Max** meet the requirements of ASTM C1116, Section 4.1.3 and Note 2.

The **ProFiber®-Max** blend of macrosynthetic and microsynthetic Fibers provides a complete reinforcement package from plastic shrinkage cracking reinforcement to post-first crack toughness reinforcement, which translates into a more durable, longer-lasting concrete.

- Post-first crack toughness reinforcement as measured by ASTM C1609 or ASTM C1399.
- Temperature-Shrinkage cracking reinforcement equivalent to Welded Wire Fabric (WWF).
- Plastic Shrinkage Cracking Reinforcement as measured by ASTM C1579.

## CONCRETE DURABILITY:

Combining macrosynthetic fibers and microsynthetic fibers enhances the long-term durability of the concrete. The blended materials deliver effective reinforcement from the moment the concrete is poured for as long as the concrete is in active use. This extended reinforcement capability is far beyond the secondary reinforcement capabilities of WWF (Welded Wire Fabric). Additional **ProFiber®-Max** improvements and benefits include:

- Reduced Permeability
- Increased Surface Abrasion Resistance
- Increased Impact Resistance
- Increased Fatigue Strength
- Reduced Volume Change due to Ambient Conditions, Temperature and Moisture

## STANDARD DOSAGE:

The standard blend of these two products incorporates 4.0 pcy of the ProFiber S and 1.0 pcy of the ProFiber MFP. Other combinations of these products are

available. **ProFiber®-Max** is available in a single 5.0 pound bag to make the dosing process easy.

## PRIMARY APPLICATIONS:

**ProFiber®-Max** is an excellent choice for industrial and warehouse floor slabs, ingress and egress roadways, as well as parking areas, and service ramps, bonded concrete overlays and elevated decks on composite steel decking.

**ProFiber®-Max** secondary applications include water diversion channels, slope stabilization, septic tanks and specification type precast products.

## PROFIBER®-MAX DETAILS:

### **DESIGN**

When introducing **ProFiber®-Max** at the standard dosage rate of 5.0 pcy we recommend that the Ready Mix Producer prepare trial mixes to ensure the standard material proportions provide sufficient mortar to coat both the coarse aggregate and the surface area of fiber. We also recommend that either a mid-range or hi-range water reducer be included in the mix ingredients to enhance placement and consolidation of the mix.

### **MIXING**

Fiber is typically delivered to a jobsite already mixed in the concrete. The fiber comes in degradable bags which are added to the concrete during batching. Premiere Concrete Admixtures recommends 4-5 minutes of mixing at high speed prior to discharging to ensure thorough dispersion of the fibers. The result is uniformly distributed fibers that provide three-dimensional reinforcement to the concrete. Fiber is hard at work in every square inch of concrete and not just in a single plane, as is found with welded wire.

### **PLACING**

No special tools or handling is required when placing **ProFiber®-Max** in reinforced mixes.



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**FINISHING** To ensure the desired surface texture and to optimize consolidation we recommend the use of either a laser screed or vibrating screed for slabs-on-ground.

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