GREENUMBRELLA™ Spec Data Sheet

fiberlite
concrete fibers

Green Umbrella Fiberlite™ is made from an Acrylonitrile / Methyl Acrylate copolymer; the precursor to Carbon Fiber. This extraordinary fiber material is further enhanced by its combination of strength and fine denier size; providing over 595 Million fibers in a cubic yard of concrete!

Green Umbrella Fiberlite™ interlocks in the fresh concrete matrix creating a mechanical stabilization and bond that controls all forms of shrinkage (such as plastic retraction). The fibers also eliminate the micro-crack formation that causes a permanent weakening in the resulting concrete. It further decreases the concrete's permeability and improves its hardened surface characteristics, such as impact resistance and toughness. These features work synergistically to enhance the long term durability of your concrete. Fiberlite (at only 0.66 lbs./yd^3) can replace traditional WWM and all typical fibrillated fibers dosed at 1.5 lbs. / yd^3 (.9 Kg/m^3) for thermal expansion & contraction.

Mixing, Placing & Finishing: Fiberlite is packaged in pre-measured, ready for concrete degradable bags, designed to be introduced at any point during the concrete mixing or batching process. Please follow proper mixing procedures as specified in ASTM C94. In addition, standard practices as detailed in ACI 302 for placing, finishing and curing concrete should be followed. There is NO surface protrusion when using Fiberlite.

Flexural	4.38 MPa (635 psi)	110% of Control
Bond Strength	89.02 kN (20,012 psi)	111% of Control
Impact Resistance	7 Days	225% of Control
Impact Resistance	28 Days	193% of Control
Plastic Shrinkage Cracking	Average Reduction:	90.4%