03 05 01 – CONCRETE MATERIALS

Solomon Colors, Inc. Distributed by ZeroDocs.com

The following specification guide has been prepared to assist design professionals in the preparation of a specification section incorporating Solomon Colors, Inc. Ultrafiber reinforcement for concrete.

Utilize these paragraphs to insert text into Specification Section 03 30 00 – Cast-in-Place Concrete or similarly titled section governing this work.

Blue text includes instructions to the design professional. Black text is intended for insertion into project specifications.

For assistance in the use of products in this section, contact Solomon Colors, Inc. by calling 800-624-0261 or visit their website at www.solomoncolors.com

PART 1 - GENERAL

REFERENCES

1. ASTM International (ASTM):
2. A820/A820M - Standard Specification for Steel Fibers for Fiber-Reinforced Concrete.
3. C1116 – Standard Specification for Fiber-Reinforced Concrete.
4. D6942 - Standard Test Method for Stability of Cellulose Fibers in Alkaline Environments.
5. D7357 - Standard Specification for Cellulose Fibers for Fiber-Reinforced Concrete.

SUBMITTALS

 A. Product Data: Manufacturer’s descriptive data.

PART 2 - PRODUCTS

MATERIALS

Utilize the following for a mixture of cellulose and steel fibers blend that reduces early age plastic shrinkage and provides long term crack control.

1. Fibrous Reinforcing:
2. Source: Solomon UltraFiber 302 Blend by Solomon Colors, Inc. [www.solomoncolors.com](http://www.solomoncolors.com)
3. Material: Alkali-resistant natural cellulose fibers with CFS cold drawn steel fibers.
4. Meet ASTM A820/A820M, ASTM D7357, and ASTM C1116, Section 4.1.4, Type IV.
5. Average length: 0.083 inch (2.1 mm).
6. Average tensile strength: 110 ksi (750 N/mm2).

\*\*\*\* OR \*\*\*\*

Utilize the following for 100-percent cellulose fiber as secondary reinforcement, reduced plastic shrinkage, improved concrete wear resistance. Ideal for concrete to be colored, dyed, polished or sealed to a decorative floor finish. Unlike carpet fibers, cellulose fibers are not noticeable in the finished surface.

1. Fibrous Reinforcing:
2. Source: Solomon UltraFiber 500 by Solomon Colors, Inc. [www.solomoncolors.com](http://www.solomoncolors.com)
3. Material: Alkali-resistant natural cellulose fibers.
4. Meet ASTM A820/A820M, ASTM D7357, and ASTM C1116, Section 4.1.4, Type IV.
5. Stability: Exceed ICC-ES requirements of 90 percent average Zero-Span Stability Ratio (ZSSR) after exposure to saturated calcium hydroxide and 1.0N sodium hydroxide, tested to ASTM D6942.
6. Average length: 0.083 inch (2.1 mm).
7. Average tensile strength: 110 ksi (750 N/mm2).

MIXES

 A. Add fibrous reinforcing to concrete during mixing; follow manufacturer’s instructions.