

**Section 09 83 16**  
**SonaSpray®"fc" Spray On Acoustical Finish**  
**Specification Guide 06/11**

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**PART 1 – GENERAL**

**1.01 Section Includes**

- A. Sprayed cellulose finish system.

**1.02 Related Items**

- A. Clips, hangers, supports, sleeves and other attachments to spray bases are to be placed by other trades prior to the application of sprayed insulation.
- B. Ducts, piping, conduit or other suspended equipment shall not be positioned until after the application of sprayed insulation.

**1.03 Submittals**

- A. Copy of manufacturer's ISO 9001:2008 Certification.
- B. Submit 2 copies of test reports indicating compliance with the following:
  - 1. Minimum light reflectivity:
    - a. Arctic White: 81+
    - b. White: 73+
  - 2. NRC values per ASTM C-423 conducted by a NVLAP certified testing laboratory:

| SonaSpray "fc" on Solid Backing |        |        |        |         |         |         |     |
|---------------------------------|--------|--------|--------|---------|---------|---------|-----|
| Inches                          | 125 HZ | 250 HZ | 500 HZ | 1000 HZ | 2000 HZ | 4000 HZ | NRC |
| 0.50"                           | .08    | .16    | .46    | .87     | 1.07    | 1.12    | .65 |
| 1.00"                           | .12    | .38    | .88    | 1.15    | 1.15    | 1.15    | .90 |

| SonaSpray "fc" on Ribbed Metal Deck |        |        |        |         |         |         |     |
|-------------------------------------|--------|--------|--------|---------|---------|---------|-----|
| Inches                              | 125 HZ | 250 HZ | 500 HZ | 1000 HZ | 2000 HZ | 4000 HZ | NRC |
| 0.75"                               | .17    | .58    | .91    | .89     | .87     | .84     | .80 |

- 3. Flame Spread Index: 5      ASTM E-84/UL 723
- 4. Smoke Developed: 5      ASTM E-84/UL 723
- 5. Bond Strength
  - SonaSpray "fc"      >600 psf ASTM E-736
  - SonaSpray "fc" Dura-K      >900 psf ASTM E-736
- 6. Compression Strength
  - SonaSpray "fc"      >400 psf ASTM E-761
  - SonaSpray "fc" Dura-K      >600 psf ASTM E-761
- 7. Comply with IBC 803.3/2009 IBC 803.10 stability requirements for interior finishes.
- C. Manufacturer's written certification that product contains no asbestos, fiberglass or other man-made mineral fibers.

**1.04 Quality Assurance**

- A. Manufacturer must have a current listing with ICC.
  - B. Manufacturer must be in compliance with the 2006 IBC.
  - C. Manufacturer must be ISO 9001:2008 Certified.
  - D. Applicator: Licensed by manufacturer.
  - E. Manufacturer must subscribe to independent laboratory follow-up inspection services of Underwriters Laboratories. Each bag shall be labeled accordingly.
  - F. Mock-up: Apply a 100 square foot representative sample to be reviewed by the Architects and/or Owner prior to proceeding.
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**1.05 Delivery, Storage and Handling**

- A. Deliver in original, unopened containers bearing name of manufacturer, product identification and reference to U.L. testing.
- B. Store materials dry, off ground and under cover.
- C. Protect liquid adhesive from freezing.

**PART 2 – PRODUCTS**

**2.01 Acceptable Manufacturers**

- A. International Cellulose Corporation  
12315 Robin Boulevard  
Houston, Texas 77045  
(713) 433-6701 or (800) 444-1252  
FAX: (713) 433-2029
- B. For approved applicators contact ICC at (800) 444-1252

**2.02 Materials** (Specify desired product)

- A. SonaSpray "fc" Acoustical Finish (4:1 Adhesive Ratio)
- B. SonaSpray "fc" Dura-K (3:1 Adhesive Ratio)
- C. Color shall be \_\_\_\_\_.

**PART 3 – EXECUTION**

**3.01 Examination**

- A. Examine surfaces and report unsatisfactory conditions in writing. Do not proceed until unsatisfactory conditions are corrected.
- B. Verify surfaces to receive spray insulation to determine if priming/sealing is required to ensure bonding and/or to prevent discoloration caused by migratory stains.

**3.02 Preparation**

- A. Provide masking, drop cloths or other satisfactory coverings for materials/surfaces that are not to receive insulation to protect from over-spray.
- B. Coordinate installation of the sprayed cellulose fiber with work of other trades.
- C. Prime surfaces as required by manufacturer's instructions or as determined by examination.

**3.03 Installation**

- A. Average thickness to achieve NRC of 0.65 or greater.
- B. Install spray applied acoustical finish according to manufacturer's recommendations.
- C. Cure material with continuous natural or mechanical ventilation.
- D. Remove and dispose of over spray.

**3.04 Protection**

- A. Protect finished installation under provisions of Division 1.

END OF SECTION

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