

# SonaSpray "fc"® Technical Data & Submittal Package

June 2015

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## Application

SonaSpray "fc" is installed by an international network of professional contractors licensed by ICC. These contractors are required to install SonaSpray using approved equipment, materials and procedures. Surfaces to receive SonaSpray are to be inspected prior to installation to determine if pre-treatment is required. Due to the inherent texture of the material and application techniques, the installed material will have thickness variances. Compliance with applicable building codes and project requirements is the responsibility of the user and/or installing contractor.

## Acoustical Performance


SonaSpray "fc" on Solid Backing							
Inches	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
0.50"	0.08	0.16	0.46	0.87	1.07	1.12	0.65
0.63"	0.16	0.22	0.57	0.95	1.09	1.12	0.70
0.75"	0.18	0.27	0.67	1.02	1.11	1.12	0.75
1.00"	0.12	0.38	0.88	1.15	1.15	1.15	0.90

SonaSpray "fc" on Lath/Plaster							
Inches	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
0.75"	0.25	0.36	0.74	0.98	0.99	0.99	0.75

SonaSpray "fc" on Ribbed Metal Deck							
Inches	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
0.75"	0.17	0.58	0.91	0.89	0.87	0.84	0.80

\*Some values interpolated. Listed thicknesses are average.

## Fire Performance Ratings

PLANT CODE	R-5499	
<b>SPRAYED FIBER</b>		
SURFACE BURNING CHARACTERISTICS		
Fiber for application with specified adhesive to Interior surfaces in accordance with directions for application supplied with the product.		
<b>APPLIED TO INORGANIC REINFORCED CEMENT BOARD IN A MAX THICKNESS OF 5 IN. +</b>		
<b>FLAME SPREAD</b>		5
<b>SMOKE DEVELOPED</b>		5
+ Must be applied with International Cellulose Corporation "SK-2000" adhesive in accordance with application instructions.		

## Code Approvals & Certifications

- ISO 9001:2008 Certified

## ASTM Standards Compliance

- ASTM E-84 Surface Burning Characteristics
- ASTM C-423 Noise Reduction Coefficients
- ASTM D-2244 Light Reflectance
- ASTM E-736 Bond Strength
- ASTM E-761 Compression Strength

Test reports available upon request.

## Federal Specifications

- Federal Defense Logistics Agency Cage Code: ONJU2
- Department of the Navy Guide Specifications – NFGS -07218
- Corps of Engineers Guild Specifications – CE-201.01
- Federal Specification – SS-S-111C

## Standard Colors

- Arctic White
- White
- Black

**Section 09 83 16**  
**SonaSpray® “fc” Acoustical Finish System**  
**Specification Guide 6/15**

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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”	.00	.14	.49	.87	1.00	.99	.65
1.00”	.05	.40	.94	1.04	.97	.99	.85

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 Underwriters Laboratories (UL) Code Evaluation Report.
- B. Manufacturer must be in compliance with the 2009 and 2012 International Building Code.
- 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.

**1.05 Delivery, Storage and Handling**

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- 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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