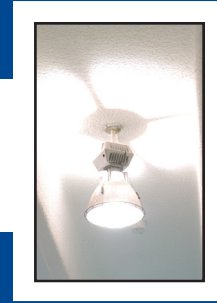


**SonaSpray® 'fc'**  
Acoustical treatment

## PROJECT DESIGN SOLUTIONS POOLS & GYMNASIUMS



### PROJECT

Windsor High School  
Windsor, Colorado

### DETAILS

SonaSpray 'fc'  
Arctic White

3/4" Thickness

Gymnasium - 21,200 square feet

Pool - 14,800 square feet

Pools and gymnasiums are two principal locations that are ideal for SonaSpray 'fc'. Windsor High School had severe reverberation problems in their pool and gymnasium. The flat reflective surfaces produced high reverberation times, making sound unintelligible. The ribbed

ceiling also interfered with the dispersion of light from the Mercury Vapor overhead lamps. Additional concerns were mildew from the very humid environment of the pool area and impact damage in the gymnasium.

A 3/4 inch application of SonaSpray 'fc' in Arctic White was chosen to accomplish the schools sound, lighting, and mildew objectives. SonaSpray 'fc' has an unequalled NRC of .75 when applied at 3/4 inch thickness. The highly light reflective surface of Arctic White SonaSpray 'fc' also dramatically brightened the pool and gymnasium (inset). Additionally, SonaSpray 'fc' is

manufactured with Borates - well known to inhibit mold and mildew growth. Finally, the strong, resilient bond of the adhesive used to apply SonaSpray 'fc' provides a durable surface that resists impact damage without the cracking or spalling typical of many plaster or cementitious-based materials.

SonaSpray 'fc' provides an attractive, high performance solution to acoustical and lighting objectives in both new construction and renovation projects. Typical installations include schools, churches, auditoriums, libraries, detention facilities, cafeterias, offices, hotels, and condominiums.

For more information on this project or a similar application call **800-444-1252** or visit [spray-on.com](http://spray-on.com)

**PARTIAL LIST OF  
SIMILAR PROJECTS**

NORTHERN ARIZONA UNIVERSITY  
FLAGSTAFF, AZ

WHITLEY CITY MIDDLE SCHOOL  
WILLIAMSBURG, KY

NORTHEAST MIDDLE SCHOOL  
BETHLEHEM, PA

SOUTH ANCHORAGE HIGH SCHOOL  
ANCHORAGE, AK

GREENWOOD ELEMENTARY SCHOOL  
DES MOINES, IA

TEXAS TECH - G.C. LEWIS BUILDING  
LUBBOCK, TX

FT. OSAGE MIDDLE SCHOOL  
INDEPENDENCE, MO

HIGHLANDS SCHOOL  
WARRINGTON, VA

MARION HIGH SCHOOL  
MARION, IN

GOLDEN POPPY ELEMENTARY SCHOOL  
PALMDALE, CA

CALIFORNIA ACADEMY OF SCIENCES  
SAN FRANCISCO, CA

JESUIT PREPARATORY  
DALLAS, TX

COLORADO COLLEGE / PALMER HALL  
COLORADO SPRINGS, CO

AMERICAN HEBREW ACADEMY  
GREENSBORO, NC

BISHOP SNIDER HIGH SCHOOL  
JACKSONVILLE, FL

BIXBY HIGH SCHOOL  
BIXBY, AL

EISENHOWER HIGH SCHOOL  
YAKIMA, WA

ENSIDO SCHOOL GYM  
MCALLEN, TX

FLORIDA STATE UNIVERSITY HOUSE  
PANAMA CITY, FL

LAFAYETTE HIGH SCHOOL  
BROOKLYN, NY

LAREDO COMMUNITY COLLEGE  
LAREDO, TX

VALLEY VIEW ISD GYM #3  
PHARR, TX

**Section 09212  
SonaSpray® "fc" Spray On Acoustical Treatment  
Specification Guide**

**PART 1 - GENERAL**

**1.01 Work Included:**

- A. The work to be performed under this section shall include all materials, equipment, labor and services required to install the sprayed cellulose fiber in accordance with these specifications and as indicated on the drawings if applicable.
- B. A representative surface of not less than 100 square feet shall be sprayed and approved by the Architect and/or Owner prior to proceeding.

**1.02 Related Work**

- 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 Systems Description/Quality Assurance:**

- A. Contractor must use a total system, encompassing equipment, fiber and adhesive as supplied and tested by the manufacturer. No substitution may be made.
- B. Contractor must be licensed and trained by the manufacturer.

**1.04 Submittals:**

- A. Provide two copies of independent test reports of:

**Light reflectivity** minimum 81 + Arctic White  
73 + White

**NRC VALUES** per ASTM C-423 conducted by a NVLAP certified testing laboratory:

	125	250	500	1000	2000	4000	NRC
0.50" <sup>1</sup>	.08	.16	.46	.87	1.07	1.12	.65
0.75" <sup>2</sup>	.25	.36	.74	.98	.99	.99	.75
0.75" <sup>3</sup>	.17	.58	.91	.89	.87	.84	.80
1.00" <sup>1</sup>	.12	.38	.88	1.16	1.15	1.15	.90

<sup>1</sup>on solid backing <sup>2</sup>on lath/plaster <sup>3</sup>on ribbed metal deck

**Flame Spread Index** 5 ASTM E-84/UL 723

**Smoke Developed** 5 ASTM E-84/UL 723

**Bond Strength**

SonaSpray "fc" >600 psf ASTM E-736  
SonaSpray "fc" Dura-k >900 psf ASTM E-736

**Compression Strength**

SonaSpray "fc" >400 psf ASTM E-761  
SonaSpray "fc" Dura-k >600 psf ASTM E-761

- B. Manufacturer's written certification that product contains no asbestos, fiberglass or other man made mineral fibers.

**1.05 Product Delivery, Storage and Handling:**

- A. Materials shall be delivered in original, unopened containers bearing name of manufacturer, product identification and reference to U.L.
- B. Store materials off ground, under cover and away from damp surfaces and keep material dry at all times.
- 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

**2.02 Materials:** (Specify desired product)

- A. SonaSpray "fc" Acoustical Treatment \_\_\_\_\_
- B. SonaSpray "fc" Dura-K \_\_\_\_\_
- C. Color \_\_\_\_\_

*\*Color selection will affect price.*

**PART 3 - EXECUTION**

**3.01 Inspection-Preparation-Installation:**

- A. The acoustical contractor shall examine all surfaces and report all unsatisfactory conditions in writing to the General Contractor and Architect. The work shall not proceed until unsatisfactory conditions are corrected.
- B. Provide masking, drop cloths or other satisfactory coverings for all materials/surfaces which are not to receive insulation so as to prevent damage from overspray.
- C. Surfaces to receive spray insulation shall be inspected prior to application to determine if priming/sealing is required to insure bonding and/or to prevent discoloration by migratory stains. Prime accordingly.
- D. The work shall be coordinated with other trades whose work may be affected or have an effect on the installation.
- E. Installation, clean-up and curing shall be accomplished according to the manufacturer's recommendations and common construction standards.
- F. The sprayed acoustical material shall be applied to an average thickness to achieve an NRC of .65 or greater.
- G. Provide natural or mechanical ventilation continuously to properly cure the insulation.

**Professionally installed by:**



12315 ROBIN BLVD.  
HOUSTON, TX 77245

800/444-1252  
713/433-6701

713/433-2029 (FAX)

www.spray-on.com (Internet)

icc@spray-on.com (E-mail)

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