

AN ACOUSTICAL FINISH CASE STUDY FROM INTERNATIONAL CELLULOSE



“We knew we had to do something more than just put a bunch of speakers in our facility to have quality sound, so we hired Kim Tollefsen of Audio Video Resources (AVR) in Phoenix to work with our architect. We also did not want to bring anything that would conflict with the clean aesthetics of our worship space. We were especially pleased to learn about ICC’s SonaKrete spray acoustic finish which could be tinted with integral pigments to match the desert sand color in our area. We are so pleased with the acoustic performance and the aesthetics of SonaKrete.”

Acoustic considerations are all too often neglected in the design. SonaKrete is a spray-applied, hand-trowelled, premium finish which eliminates the popcorn look of other sprayed acoustic products. SonaKrete also qualifies for multiple LEED Credits. Available in white, arctic white and custom integral colors, SonaKrete offers versatile options that help meet both of your critical aesthetic and acoustic demands.

SonaKrete fills a void in the high-end market of acoustic finishes. When it comes to aesthetics, physical toughness, economy of installation and performance; SonaKrete is in a league of its own.

With SonaKrete®, Quiet Never Looked So Good.

Contact ICC at (877) 790-9367 for samples and complete technical data. Please pay us a visit at www.sonakrete.com. Would you like to learn even more? ICC also offers architects an AIA/CES Lunch-N-Learn program on the subject of Spray-Applied Acoustic Finishes.

PROJECT	Corpus Christi Catholic Church Tucson, AZ
DETAILS	SonaKrete® Custom Integral Color: Desert Sand 5,200 Sq. Ft. @ 3/4”
ARCHITECT	CCBG 102 Buchanan St. Phoenix, AZ 85004
ACOUSTICS	AVR 4323 East Cotton Center Blvd Phoenix, AZ 85040

Linda Wood chaired the building committee for the new Corpus Christi Catholic Church in Tucson. Having visited a number of other worship facilities in the area to get ideas, she quickly became aware of just how bad the acoustics were in those facilities.

Other Custom Color
SonaKrete Applications



Townsend Library & Senior Center
Townsend, MA



Lambert International Airport
St. Louis, MO



Valdosta University
Valdosta, GA



Cullen's Upscale American Grille
Houston, TX

Section 09 83 16
SonaKrete® Acoustical Finish
Specification Guide

INTRODUCTION

This specification is designed to enable the design professional or specification writer to select the NRC value that best suits the project's requirements. Please edit the NRC value in section 3.03 Line A.

PART 1 – GENERAL

1.01 Section Includes

- A. SonaKrete® Acoustical Finish System.

1.02 Project Scheduling

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

1.03 Submittals

- A. Submit one copy of the manufacturer's ISO 9001:2008 Certification.
- B. Submit 2 copies of the test reports indicating compliance with the following:
 1. NRC values per ASTM C-423 conducted by a NVLAP certified testing laboratory:

Inches	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC
.25"	.01	.07	.39	.69	.83	.87	.50
.375"	.06	.11	.46	.77	.84	.89	.55
.50"	.01	.16	.49	.89	1.03	.97	.65
.75"	.25	.48	.81	.85	.85	.94	.75

- 2. Class 1 Fire Rating per ASTM E-84
- C. Submit one copy of the manufacturer's written certification that the materials contain no asbestos, fiberglass or other man-made mineral fibers.
- D. Applicator's certificate: Manufacturer's approval of applicator.
- E. Submit 2 5"x7" samples from the manufacturer.

1.04 Quality Assurance

- A. The Manufacturer must be ISO 9001:2008 Certified.
- B. The Applicator: Approved by International Cellulose in performing work of this Section.
- C. Field samples:
 1. Construct one field sample panel, 10'x10', to specified thickness to illustrate texture and color.
 2. Prepare the sample using the same tools and techniques to be used for the actual application.
 3. Locate the sample where directed.
 4. The applicator will inform the project architect when the sample is ready for review.
 5. Do not start the actual application until the architect has approved the field sample.

1.05 Delivery, Storage and Handling

- A. Deliver in original, unopened containers bearing name of manufacturer and product identification.

- B. Store materials dry, off ground and under cover.
- C. Protect liquid adhesive, sealers & additives from freezing.

1.06 Project Conditions

- A. The air temperature in the room must be a minimum of 40° F and maintained until the material has cured.
- B. The substrate temperature must be a minimum of 40° F.
- C. The General Contractor to provide ventilation to ensure proper curing.

PART 2 – PRODUCTS

2.01 Acceptable Manufacturers

- A. International Cellulose Corporation
12315 Robin Boulevard
Houston, Texas 77045
877-790-9367
FAX: (713) 433-2029

2.02 Materials

- A. SonaKrete® Acoustical Finish System
- B. SonaPrep
- C. Water – Potable
- D. Color shall be:
 - White Arctic White
 - Custom Color _____

PART 3 – EXECUTION

3.01 Examination

- A. Examine the substrate surfaces and report unsatisfactory conditions in writing. Do not proceed until unsatisfactory conditions are corrected.
- B. Drywall substrates require a minimum Level 3 finish and are to be sealed with SonaPrep.
- C. Plaster substrates require a brown coat finish and are to be sealed with SonaPrep.
- D. Consult International Cellulose for other substrates.

3.02 Preparation

- A. Provide masking, drop cloths or other satisfactory coverings for materials/ surfaces that are not to receive acoustical finish.
- B. Coordinate the installation of the acoustical finish with work of other trades.

3.03 Application

- A. Install to a thickness to achieve an NRC of _____.
- B. Install the acoustical finish according to the manufacturer's written instructions.
- C. After achieving the required thickness and while still wet, float the material to match the approved field sample.
- D. Cure the material with continuous natural or mechanical ventilation.

3.04 Protection

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



SonaKrete is manufactured with a minimum of 80% recycled content which makes it ideal for LEED credits.

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CORPORATION**

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