

AN ACOUSTICAL FINISH CASE STUDY FROM INTERNATIONAL CELLULOSE

PROJECT	Badger Mutual Insurance Milwaukee, WI
ARCHITECT	Pfaller Architecture Assoc. Milwaukee, WI
ACOUSTICAL CONSULTANT	Scott Reidel & Associates, Ltd. Milwaukee, WI
DETAILS	SonaKrete Standard White 4,050 sq ft. @ 3/4"

The challenge of controlling unwanted conversations and cross talk in an open office environment has always been an acoustics dilemma. Studies have repeatedly demonstrated that employee efficiency is reduced in an acoustically harsh work environment. Badger Mutual contracted with architect Mark Pfaller to renovate and update their offices with emphasis of making the area quieter. Glued on tiles were removed and a new drywall ceiling substrate was installed. The acoustic consulting firm of Scott R. Riedel & Associates of Wauwatosa, WI was contracted to make product recommendations. The timely introduction of ICC's SonaKrete premium acoustic finish was just what they were looking for...a spray-applied and hand trowelled premium acoustic finish without the popcorn look of other spray products. 4,050 square feet of ICC's SonaKrete was specified and sprayed to the ceilings at 3/4" providing an NRC .75

Eric Wolfram, Associate Acoustician of Scott Reidel & Associates later wrote *"I visited Badger Mutual Insurance today and wanted to say that the SonaKrete installation looks really good. The people at Badger Mutual agree and are very happy with it. I also think most people won't recognize this as an acoustic a product either and that's a good thing!"* This did not surprise ICC as our SonaKrete licensed contractors are frequently described as the Michaelangelo's of the spray acoustic ceiling industry

Performance, looks and cost are the three main points that go into the choosing of a spray acoustic finish. SonaKrete provides higher NRC's with thinner applications than traditional spray plaster systems. With labor being the most expensive part of a bid, thinner applications mean more work can be completed per day.

SonaKrete is ideal for any architectural space requiring both acoustic performance and beautiful aesthetics. SonaKrete is available in Standard White and Arctic White. Custom matched integral colors are also available. SonaKrete is also ideal for worship centers, museums, libraries, lobbies, boardrooms, correctional facilities, and wherever performance, appearance and durability call for only the very best. Contact International Cellulose at **1-877-790-9367** for samples and complete technical data or visit our website at www.sonakrete.com. Would you like to learn more? ICC offers architects an AIA/CES program on the subject of Spray-Applied Acoustic Finishes.



**Other Custom Integral Color
SonaKrete Applications**



Valdosta University
Valdosta, GA



Lunello Restaurant
Cedar Grove, NJ



Johnson & Wales University
Providence, RI



Badger Mutual Insurance
Milwaukee, WI



SonaKrete is manufactured with a minimum of 80% recycled content which makes it ideal for "Sustainable Design" LEED projects.

**Section 09 83 00
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 9001:2000 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 8"x8" samples from the manufacturer.

1.04 Quality Assurance

- A. The Manufacturer must be ISO 9001:2000 Certified.
- B. The Applicator: Must be 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

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

3.04 Protection

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

End of Section



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CORPORATION**

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