

AN ACOUSTICAL FINISH CASE STUDY FROM INTERNATIONAL CELLULOSE



PROJECT	Brown University Providence, RI
ARCHITECT	Lerner Ladds Bartell Providence, RI
ACOUSTICAL CONSULTANT	Acentech Cambridge, MA
DETAILS	SonaKrete Arctic White 10,000 sq. ft. @ ½" Shrp. Refr.

Brown University, one of the oldest universities in the USA, originated as the College of Rhode Island in 1764 and ultimately becoming known as Brown University in 1804. The Sharp Refectory, affectionately known as the "Ratty" is arguably the social center of the campus, serving over 1,500 students per meal. The Ratty recently underwent major remodeling. At the time, acoustics were considered low on the priority list to enable completion of the renovations in the time frame allowed. As soon as 900+ students occupied the facility for a meal, it was very clear that something drastic had to be done to control the horrific noise problem. After considerable research, Architect Aimee Lombardo chose to specify LEED Certified, Arctic White SonaKrete

because of its attractive appearance, high GE 81 light reflectivity and high NRC performance. LLB commissioned the acoustic consulting firm of Acentech to determine the specified thickness of ½" to achieve a NRC of .65.

Upon completion, Aimee Lombardo said, "It was even smoother than I expected. What a difference it made. We are all impressed with SonaKrete and the ATI crew for their fine workmanship. We are definitely going to specify SonaKrete on future projects".

Consultant's quotes

ICC, being the World's largest producer of spray-applied acoustic finishes, has a very experienced and professional sales team. Helping architects, acoustic consultants and end-users achieve their acoustic goals and design objectives are not just our missions; it is, in fact, the driving force of our entire team. We look forward to being of service to you. We invite you to visit our website at www.sonakrete.com or give us a call at 1-877-790-9367 to request samples or to schedule our AIA/CES Lunch-N-Learn program on the subject of Spray-Applied Acoustic Finishes.

**Other Custom Integral Color
SonaKrete Applications**



**Valdosta University
Valdosta, GA**



**Lunello Restaurant
Cedar Grove, NJ**



**Sunfire Grill
Crescent Bar, WA**



**Continental Restaurant
Atlantic City, NJ**



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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