

AN ACOUSTICAL FINISH CASE STUDY FROM INTERNATIONAL CELLULOSE



PROJECT	Mercer Island Beach Club Mercer Island, WA
ARCHITECT	Jensen/Fey Architecture Redmond, WA
DETAILS	SonaKrete Standard White 1,000 sq. ft @ 3/4"

The Mercer Island Beach Club is a Homeowner Association facility with an Olympic-sized pool, tennis courts, boat docks and a hydroplane boat race course on Lake Washington. The great room is very much a multi-purpose area hosting as many as 80 people for meetings, parties and neighborhood social events. It was apparent that the unique inverted pyramid-like ceiling design would focus reflected sounds to hot spots on the floor much like a dome or barrel vaulted ceiling. Just the ambient noise of people socializing could turn this otherwise beautiful environment into an area that creates discomfort.

Knowing this problem needed to be addressed, Project Architect Kurt Jensen turned to Ron Ogden, ICC's North West Mfg., Rep. A number of acoustic absorbing products were being considered

during the design stage. ICC's newest product, SonaKrete, a LEED Certified, spray-applied, hand trowelled premium acoustic finish was the preferred product-of-choice because it eliminates the popcorn look of other spray products. SonaKrete would more closely match the smooth, modern look of the facility. 1,000 square feet of SonaKrete was specified and sprayed to the second floor ceiling at 3/4" providing an NRC .75

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, offices, lobbies, boardrooms, correctional facilities, and wherever performance, appearance, 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. Want to learn more? ICC also 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**



**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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