SECTION 09 83 00 – ACOUSTICAL FINISHES

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 References:

A. ASTM C 423: Sound Absorption Data (NRC)
B. ASTM E 84: Surface Burning Characteristics
C. ASTM E 736: Bond Strength
D. ASTM D 2244: Light Reflectance Value (LRV)
E. ASTM C 1338-14 Fungal Resistance: No Growth/ Pass
F. UL 2821: GREENGUARD Certification Program Method for Measuring and Evaluating Chemical Emissions from Building Materials, Finishes, and Furnishings
G. M1 Classification of Low Emitting Building Materials

1.04 Submittals:

A. Submit one copy of the manufacturer's ISO 9001: 2015 Certification.
B. Submit test reports/technical data confirming that the product meets the performance requirements.
C. Submit one copy of the product's GREENGUARD Gold Certification.
D. Submit one copy of the manufacturer's certification that the product does not contain silica, asbestos, fiberglass or other man-made mineral fibers.
E. Installing Contractor: submit one copy of SonaKrete® license provided by manufacturer.
F. Submit product sample bearing the name SonaKrete®, provided by manufacturer.

1.05 Quality Assurance:

A. Installing contractor must be licensed by the manufacturer.
B. Manufacturer must be ISO 9001:2015 Certified.
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 application until the architect has approved the field sample.

1.06 Delivery, Storage, and Handling:

A. Deliver in original, unopened containers bearing name of the manufacturer and product identification.
B. Store materials dry, off the ground, and under cover.
C. Protect liquid adhesive, sealers, and additives from freezing.

1.07 Field Conditions:

A. The air temperature in the room must be a minimum of 60º F and maintained until the material has cured.
B. The substrate temperature must be a minimum of 60º F.
C. General Contractor to provide ventilation to ensure proper curing.

PART 2 – PRODUCTS

2.01 Performance Requirements:

A. ASTM E 84: Surface Burning Characteristics: Class 1 Class A Rated
B. Smoke Development: 5 Flame Spread: 10
C. ASTM E 736: Bond Strength: > 800 PSF
D. ASTM C 1338-14: Fungal Resistance: No Growth/ Pass
E. UL 2821: GREENGUARD Method for Evaluating Chemical Emissions from Building Materials, Finishes and Furnishings.
F. GREENGUARD Gold Certified per UL® Environmental

G. ASTM D 2244: Light Reflectance Value (LRV): Arctic White = 91 White = 89
H. ASTM C 423: Sound Absorption Data:
   1. SonaKrete® on Solid Backing

Application Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	**NRC**
.25”	.01	.07	.39	.69	.83	.87	**.50**
.375”	.06	.11	.46	.77	.84	.89	**.55**
.5”	.01	.16	.49	.89	1.03	.97	**.65**
.75”	.25	.48	.81	.85	.85	.94	**.75**
Acoustical testing performed by NVLAP certified testing lab.							

2.02 Acceptable Manufacturers:

A. International Cellulose Corporation
   12315 Robin Boulevard
   Houston, Texas 77045
   (713) 433-6701 or TF:(800) 444-1252
   icc@spray-on.com

2.03 Acoustical Finish System:

A. SonaKrete® Acoustical Finish System:
   1. System consists of SonaKrete® Fibers and SonaKrete® Adhesive.
B. Color shall be (select one):
   1. ❒ White
   2. ❒ Arctic White
   3. ❒ Custom Color: _____
C. Thickness shall be:
   1. Install material to a thickness to achieve an NRC of: _____

PART 3 – EXECUTION

3.01 Examination:

A. Examine surfaces to be sprayed to ensure there are no areas such as unsealed wood, oxidized metal, bare metal or any other condition which could result in migratory staining/discoloration or otherwise damage the spray acoustical material.
B. Examine the substrate surfaces and report unsatisfactory conditions in writing. Do not proceed until unsatisfactory conditions are corrected.
C. Coordinate the installation of the acoustical finish with work of other trades.

3.02 Preparation:

A. Prepare substrate according to the manufacturer’s written instructions.
B. General substrate preparation may include; but is not limited, to the following:
   1. Gypsum/Drywall Substrates: A minimum level 3, preferably level 4 primed finish is recommended.
   2. Drywall substrates are to be primed with a suitable drywall primer such as: Sherwin Williams® Multi-Purpose Water-Based Acrylic Alkyd.
   3. **The use of Quickset, Quicksand, Drywall Joint Compound is not acceptable.**
   4. Plaster substrates may require brown coat finish.
   5. Consult the manufacturer for other substrates.

3.03 Application:

A. Install SonaKrete® using approved equipment, materials and procedures.
B. Install material to a thickness to achieve an NRC value of: _____.
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.
E. Protect finished installation under provisions of Division 1.

END OF SECTION

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