



MIRACLE® SCS-100
Guide Specification

SECTION 079220
SOUND-CONTROL SEALANTS

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SECTION 079220

SOUND-CONTROL SEALANTS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes sound-control sealants.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Certificates:
 - 1. SCAQMD (South Coast Air Quality Management District), Rule 1168.

1.3 REGULARY REQUIREMENTS

- A. SCAQMD (South Coast Air Quality Management District), Rule 1168.
- B. California Air District Regulations.
- C. Ozone Transport Commission (OTC) model Rule for Adhesives and Sealants.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Sound-Control Sealants:
 - 1. SCS-100 Sound-Control Sealant manufactured by ITW Polymers Sealants (Basis of Design).
 - a. 111 S. Nursery Rd., Irving TX 75060.
 - 2. Or equal.

2.2 SOUND-CONTROL SEALANTS

- A. Description:
 - 1. Reduces sound transmission and increase acoustical performance in gypsum wallboard partition systems.
 - 2. Adheres firmly to wood, metal, concrete, and gypsum drywall surfaces.

3. Bridges gaps and building material irregularities up to 3/8-inch-wide and 3/8 inch deep.
- B. Advantages:
1. Will not stain.
 2. Excellent aging characteristics.
 3. Excellent adhesion properties.
 4. Mildew resistant.
 5. No oil migration.
 6. 30-minute tack free time.
 7. Excellent extrudability.
 8. Paintable after cure.
 9. Low slump.
- C. Physical Properties:
1. Base: Synthetic Latex.
 2. Solvent: Water.
 3. Solids: 73.0 +/- 3.7%.
 4. Weight/Gallon: 11.79 lbs/gallon.
 5. VOC Content: 23.9 g/l (EPA Method 24).
 6. Shelf Life: 12 months, unopened.
 7. Viscosity: 400,000-437,500 cps.
 8. Open Time: 30 minutes.
 9. Dry Time: 48-72 hours.
 10. Flashpoint: N/A.
 11. Color: White.
 12. Coverage: 38 linear feet using 3/8" bead.
 13. Formaldehyde: No urea formaldehyde added during sealant manufacturing.
 14. Meets ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
 15. Meets ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.
 16. Meets ASTM C731, ASTM C732, ASTM D2202, ASTM D2203, ASTM D2377.
 17. Install in accordance with ASTM C919 Standard Practice for Use of Sealants in Acoustical Applications.
- D. SCAQMD: Meets SCAQMD, Rule 1168 (less than 250 g/L VOC).
- E. Sound Transmission Data per ASTM E-90:
1. Test Panel without SCS-100: STC=24.
 2. Test Panel with SCS-100: STC=52.
- F. Listed by Underwriters Laboratories Inc.:
1. R5058 NO. 13: Adhesive 309U Surface Burning Characteristics Applied to Inorganic Reinforced Cement Board.
 2. Flame Spread: 0.
 3. Smoke Develop: 0.
 4. Tested as applied in one 2-inch wide strip 0.0032 inch thick. (Coverage: 11% of exposed test sample area)
- G. Contributes to LEED and other green building rating system credits:
1. LEED-NC EQ Credit 4.1

2. LEED-CI EQ Credit 4.1
3. LEED Core & Shell EQ Credit 4.1
4. LEED-EB MR Credit 3
5. Green Guide for Health Care EQ Credit 4.1
6. NAHB Model Green Home Building Guidelines-Sect 7, Global Impact, 7.1.3, Low VOC Construction Adhesive

PART 3 - EXECUTION

3.1 APPLICATION, GENERAL

- A. Comply with sealant manufacturer's written instructions for installation.

3.2 SEALANT APPLICATION

- A. Surfaces to be sealed must be clean, dry and free of oil, grease and other foreign material. To seal perimeters of all sound-rated wall systems, apply a 3/8" continuous bead of SCS-100 around floor and ceiling runners, either wood or metal. Then apply another 3/8" continuous bead around all openings formed for electrical outlets, lights, heating ducts, etc.
- B. Not for use in deflection track systems.
- C. Protect from freezing. Do not apply below 40°F. Do not permit installation to go below freezing within the first 24 hours after application. Must have at least one porous surface.
- D. Adhesive is non-flammable, and may be painted after curing. However, due to the wide variety of interior paints each must be checked for adhesion to product prior to use.
- E. Clean up: Before sealant dries, use warm, soapy water. After sealant dries, use mineral spirits, exercising safe practices.

END OF SECTION 079220