

Tex-Ceil ThermoTuff

Section 07210 Sprayed Thermal and Acoustic Insulation Rev. 1/3/07

PART 1 - GENERAL

1.01 WORK INCLUDED

1. Sprayed cellulose thermal and acoustical insulation.
2. The work to be performed under this section shall include all materials, equipment, labor, and services required to install the sprayed cellulose fiber in accordance with these specifications as indicated on the drawings if applicable.

1.02 RELATED WORK

1. All electrical, plumbing, and mechanical penetrations must be completed prior to application. Clips, hangers, supports, sleeves, and other attachments to substrate are to be installed by other trades prior to application.
2. Ducts, conduit, piping, and other equipment shall not be installed until after application of sprayed insulation system.

1.03 SYSTEMS DESCRIPTION / QUALITY ASSURANCE

1. The contractor must be approved by the manufacturer.
2. Contractor must use a total system, including fiber and adhesive and tested in sprayed form by Underwriters Laboratories and subject to follow-up inspection. Each bag shall be labeled accordingly. No substitution may be made.
3. Mockup: Apply a representative sample of 100 square feet to be reviewed by the Architect and/or Owner prior to proceeding with work.

1.04 SUBMITTALS

1. Submit product data and manufacturer's certificate that the product meets or exceeds specified requirements.
2. Manufacturer's written certification that the product contains no asbestos, fiberglass, or other man-made mineral fibers.

1.05 DELIVERY, STORAGE, AND HANDLING

1. Materials shall be delivered in original, unopened containers bearing the name of the manufacturer, product identification, and reference to Underwriters Laboratory testing.
2. Store materials off the ground in a dry location at all times.
3. Protect ThermoBond/ThermoTuff adhesive from freezing.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

1. International Cellulose Corporation
12315 Robin Blvd
Houston, Texas 77045
713-433-6701 or 800-444-1252
Fax: 713-433-2029
www.thermocon.com icc@spray-on.com
2. For approved applicators, contact ThermoCon at (800)444-1252.

2.02 MATERIALS

1. Tex-Ceil ThermoTuff Sprayed Thermal and Acoustic Insulation System
2. Color shall be White.
3. Apply at nominal thickness to provide R-value indicated in Schedule 3.03. Thickness is limited to 1".
4. Sprayed material shall meet all standards of performance according to ASTM C1149 Type 1 Self-Supported, Spray-Applied Cellulose Insulation
5. Thermal testing in accordance with ASTM C518
 - R value 3.7 per inch
 - K-factor .27 per inch
6. Underwriters Laboratories tested and listed according to UL723.
 - Flame spread 5
 - Smoke developed 0

7. Comply with ASTM Standards

- E859 Air erosion of sprayed fire resistive materials
- E605 Thickness and density of sprayed fire resistive materials
- E736 Field tested cohesion/adhesion of materials
- C423 Sound absorption coefficients
- E413 Classification for rating sound insulation
- E759 Effects of deflection on materials
- C523 Light reflectance of acoustical materials
- E119 Fire test of building construction and materials
- E1042 Classification for acoustically absorbent materials
- E761 Compressive strength

UMB-80 Shall meet requirements of HUD.

8. NRC rating – install at thickness to achieve a NRC rating as indicated in Schedule 3.03

ThermoCon Sprayed Thermal & Acoustic Insulation ASTM C423 on Solid Backing.*

Inches	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
0.50"	0.09	0.17	0.48	0.88	1.08	1.13	.65
0.63"	0.01	0.211	0.60	0.99	1.05	1.06	.70
0.75"	0.16	0.26	0.67	1.03	1.12	1.13	.75
1.00"	0.12	0.38	0.89	1.18	1.16	1.16	.90

*Some values interpolated.

PART 3 - EXECUTION

3.01 INSPECTION

1. Insulation contractor shall examine all surfaces and report unsatisfactory conditions in writing. The work shall not proceed until unsatisfactory conditions are corrected.
2. Surface to be sprayed shall be inspected prior to application to verify if cleaning, priming, or sealing of surface is required to ensure bonding. Prepare surface accordingly. Kilz primer/sealer/stain-blocker or equal is the recommended primer.
3. All surfaces must be free of dust, dirt, rust, oil, grease, and exotic coatings.
4. Material must be applied at ambient temperature above 40 degrees F. Ambient temperature must remain above 40 degrees F for at least 72 hours after application to aid in the curing / drying process. Application outside of this requirement will void product warranty.

3.02 INSTALLATION

1. Equipment, mixing, and application shall be in accordance with manufacturer's application instructions and specification.
2. Provide masking, drop cloths, or other satisfactory covering protection for all surfaces which are not to be sprayed to prevent damage from over-spray.
3. Continuous mechanical or natural ventilation shall be applied to cure sprayed insulation.
4. Protect finished installation under provision of Division 1.

3.03 Schedule

Provide a schedule when insulation requires listing by thickness, R-value, NRC value, color, or other attributes.

END OF SECTION