

# Section 07218

## K-13® Spray-On Systems

### Specification Guide 10/03

**PART 1 – GENERAL**

**1.01 Section Includes**

Edit acoustical where required

6. Comply with ASTM E-1042.

Edit NRC rating if applicable

7. NRC Rating:  
 a. Install at a minimum thickness to achieve a NRC rating as indicated in the Schedule 3.05.

**1.02 Related Items**

- A. Clips, hangers, supports, sleeves and other attachments to spray bases are to be placed by other trades prior to the application of sprayed insulation.
- B. Ducts, piping, conduit or other suspended equipment shall not be positioned until after the application of sprayed insulation.
- C. Roof penetrations to be installed prior to application.

K-13 Sprayed Thermal and Acoustical Insulation ASTM C-423 on Solid Backing*							
Inches	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
1.00	0.08	0.29	0.75	0.98	0.93	0.96	0.75
1.00**	0.47	0.90	1.10	1.03	1.05	1.03	1.00
2.00	0.26	0.68	1.05	1.10	1.03	0.98	0.95
3.00	0.57	0.99	1.04	1.03	1.00	1.00	1.00

**1.03 Quality Assurance**

- A. Manufacturer must be ISO 9001:2000 Certified.
- B. Applicator: Licensed by manufacturer
- C. Manufacturer must subscribe to independent laboratory follow-up inspection services of Underwriters Laboratory and Factory Mutual. Each bag shall be labeled accordingly.
- D. Mock-up: Apply a representative sample 100 square feet to be reviewed by the Architect and/or Owner prior to proceeding.

K-13 Sprayed Thermal and Acoustical Insulation Applied at 1.5" Ribbed Metal Deck*							
Inches	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
1.50	0.36	0.89	1.26	1.07	1.01	1.00	1.05
3.00	0.97	1.04	1.13	0.99	0.95	0.98	1.05

\*Some values interpolated \*\*On lath

**1.04 Submittals**

- A. Submit product data and manufacturer's certificate that the product meets or exceeds specified requirements.
- B. Manufacturer's written certification that product contains no asbestos, fiberglass or other man-made mineral fibers.
- C. Copy of manufacturer's ISO 9001:2000 Certification.

- 8. Non-corrosive per UMB-80.
- 9. Bond Deflection per ASTM E-759: 6" Deflection in 10' Span – No Spalling or Delamination.
- 10. Cohesive Strength at time of application per Method WS-2000: >700 Grams.

**1.05 Delivery, Storage and Handling**

- A. Deliver in original, unopened containers bearing name of manufacturer, product identification and reference to U.L. testing.
- B. Store materials dry, off ground, and under cover.
- C. Protect liquid adhesive from freezing.

**PART 3 - EXECUTION**

**3.01 Examination**

- A. Examine surfaces and report unsatisfactory conditions in writing. Do not proceed until unsatisfactory conditions are corrected.
- B. Verify surfaces to receive spray insulation to determine if priming/sealing is required to insure bonding and/or to prevent discoloration caused by migratory stains.

**3.02 Preparation**

- A. Provide masking, drop cloths or other satisfactory coverings for materials/surfaces that are not to receive insulation to prevent damage from over-spray.
- B. Coordinate installation of the sprayed cellulose fiber with work of other trades.
- C. Prime surfaces as required by manufacturer's instructions or as determined by examination.

**3.03 Installation**

- A. Thickness will be determined as the minimum thickness measured as per ASTM E-605 field test procedure.
- B. Install sprayed applied insulation according to manufacturer's recommendations.
- C. Cure insulation with continuous natural or mechanical ventilation.
- D. Remove and dispose of over-spray.

**3.04 Protection**

- A. Protect finished installation under provision of Division 1.

**3.05 Schedule**

Provide a schedule when insulation requires listing by color, insulation value, NRC values and attributes.

**PART 2 - PRODUCTS**

**2.01 Acceptable Manufacturers**

- A. International Cellulose Corporation  
 12315 Robin Boulevard  
 Houston, Texas 77045  
 (713) 433-6701 or (800) 444-1252  
 FAX: (713) 433-2029  
[www.spray-on.com](http://www.spray-on.com)      [icc@spray-on.com](mailto:icc@spray-on.com)
- B. For approved applicators contact ICC at 800-444-1252.

**2.02 Materials**

- A. K-13 Spray -On-Systems.  

Color selection will affect price

1. Color shall be as indicated in Schedule 3.05.

Add Thermal Resistance values if applicable

- 2. Apply at minimum thickness to provide R value(s) as indicated in Schedule 3.05.
- 3. Comply with ASTM E736 for field-tested bond strength; tested @ > 5 years:
  - a. Not less than 400 psf
  - b. Not less than 600 times it weight @ 1"
- 4. Comply with ASTM E-84/U.L. 723, Tested at a minimum of 5" thickness Class I, Class A
  - Flame Spread:                    5
  - Smoke Development:           5
- 5. Comply with local Building Code requirements.

END OF SECTION