

## Section 07218

### K-13® Spray-On Systems

### Specification Guide 10/03

#### PART 1 – GENERAL

##### 1.01 Section Includes

Edit acoustical where required

- A. Sprayed cellulose thermal [and acoustical] insulation.

##### 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.

##### 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.

##### 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.

##### 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 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 E-736 for field-tested bond strength; tested @ > 5 years:
- a. Not less than 400 psf
  - b. Not less than 600 times its 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.

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.

| 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 |

| 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

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.

#### 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.

END OF SECTION