

**Section 09 83 16**  
**Ure-K® Thermal Barrier Systems**  
**Specification Guide 09/18**

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**PART 1 – GENERAL**

**1.01 Section Includes**

- A. Sprayed cellulose thermal barrier 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 have a current Underwriters Laboratories (UL) Code Evaluation Report.
- B. Manufacturer must be in compliance with the 2009 and 2012 International Building Code.
- C. Manufacturer must be ISO 9001:2015 Certified.
- D. Applicator: Licensed by manufacturer.
- E. Manufacturer must subscribe to independent laboratory follow-up inspection services of Underwriters Laboratories and Factory Mutual. Each bag shall be labeled accordingly.
- F. Mock-up: Apply a 100 square foot representative sample to be reviewed by the Architect and/or Owner prior to proceeding.

**1.04 Submittals**

- A. Submit product data that the product meets or exceeds the following specified requirements.
  - 1. R-Value shall be 3.6 per inch per ASTM C 518.
  - 2. Bond strength shall be greater than 100 psf per ASTM E 736.
  - 3. Product shall be Class 1 Class A per ASTM E 84/ UL 723.
  - 4. Tested in accordance with UBC 26-2 Test Method for the evaluation of Thermal Barriers (ASTM E 119)
  - 5. NRC to be 0.95 @ 1.25" thick per ASTM E 1042.
  - 6. Pass Full – Scale Corner Test.
  - 7. Comply with 2009 IBC Section 803.10 stability requirements for interior finishes.
- B. Manufacturer's written certification that product contains no asbestos, fiberglass or other man-made mineral fibers.
- C. Copy of manufacturer's ISO 9001:2015 Certification.
- D. Minimum Fiber Recycled Content to be 75%.
- E. Cannot contain any added Urea-Formaldehyde Resins.

**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.
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**2.02 Materials**

- A. Ure-K Thermal Barrier System.
  - 1. Color shall be from Manufacturer's standard color chart.
  - 2. Comply with local Building Code requirements.

**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 protect 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 spray applied insulation according to manufacturer's recommendations.
- C. Install Thermal Barrier System at 1.25" average thickness.
- D. Cure insulation with continuous natural or mechanical ventilation.
- E. Remove and dispose of over-spray.

**3.04 Protection**

Protect finished installation under provision of Division 1.

END OF SECTION

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