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Short Form Guide Specification

**ADHESIVES FOR
THERMAL PROTECTION**

2006 09 30
The Dow Chemical Company
Short Form Guide Specification - Adhesives for Thermal Protection
Insta-Stik Quik Set Commercial Roof Adhesive

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SPEC NOTE: Following are suggested specification paragraphs to be used when specifying sprayed-in-place polyurethane adhesive. This product is typically considered an accessory type product for use with roofing insulation, and may be included in Section 07 22 00 - Roof and Deck Insulation.

SPEC NOTE: Insert the required paragraphs into the Section under the noted Articles, and make any required selections. Where selection is indicated with an [OR] statement, select the appropriate paragraph and delete the inappropriate statement. Delete all SPEC NOTES and [OR] statements prior to final printing.

DISCLAIMER: The manufacturer has reviewed the product information contained in this short form specification and is responsible for its accuracy. The information is organized and presented to assist the specification writer working on a construction project to select the appropriate products and to save time in writing the project specification Section. The specification writer is responsible for product selection as well as the use and application of this information, and should contact the manufacturer to ensure that all options are available and that the associated specification information is valid and correct.

PART 1 GENERAL

1.XX PERFORMANCE REQUIREMENTS

SPEC NOTE: select appropriate roof design (flat or sloped) and then select FM Class applicable to Project. FM Approvals are for specific combinations of insulation materials and substrates. Please consult FM Approvals to determine if the combination of roofing materials for a specific Project meets the desired Class.

- A. Factory Mutual - Flat Roof: comply with FMG Fire / Windstorm Class [1-60][1-90][1-135][1-150][1-165][1-180][1-195][1-210][1-225][1-240][1-270].

[OR]

- A. Factory Mutual - Sloped Roof: comply with FMG Fire / Windstorm Class [1-135][1-150][1-165][1-180][1-195][1-240][1-315].
- B. Underwriters Laboratories: comply with UL 1897 for uplift design criteria.

1.XX DELIVERY, STORAGE AND HANDLING

- A. Refer to Section [01 00 00][01 60 00].
- B. Deliver Products in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Store Products in a dry and adequately ventilated area, with an ambient temperature maintained between [45 degrees F and 75 degrees F] [7 degrees C and 24 degrees C].
- D. Keep containers tightly closed when not in use.

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- E. Protect containers from damage.
- F. Keep Products away from direct sunlight.

1.XX ENVIRONMENTAL REQUIREMENTS

- A. Apply Products when ambient air temperature is greater than [33 degrees F] [1 degree C] and less than [110 degrees F] [43 degrees C].
- B. Do not apply Products during inclement weather, or to surfaces that are wet or have standing water, frost, ice or snow present.

1.XX WARRANTY

- A. Submit manufacturer's extended warranty as described in the General Conditions of the Contract.

SPEC NOTE: Standard extended warranty period is 10 years. Increased warranty periods of 15 years and 20 years are available at an additional cost.

- B. Manufacturer's Warranty: [10][15][20] year extended warranty, covering adhesion of Product to compatible materials and substrates.

PART 2 PRODUCTS

2.XX ACCESSORIES

- A. Insulation Adhesive: single-component, moisture cured, solvent free polyurethane adhesive; dispensed from a portable disposable pre-pressurized container; Insta-Stik Quik Set Commercial Roof Adhesive by The Dow Chemical Company.

PART 3 EXECUTION

3.XX EXAMINATION

- A. Ensure surfaces are free of debris, dirt, dust, grease, oil, diesel fuel and standing water.

3.XX PREPARATION

- A. Steel Deck: Remove residual oil coating from steel substrate with a TSP, acetone, naphtha or comparable cleaner.

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- B. Re-Cover Over Built-Up Roofing: Completely remove existing roofing materials from existing roof surface. Clean roof deck surface. Conduct field pull-test to determine material compatibility when residual asphalt is present on deck surface.

3.XX INSTALLATION

- A. Apply beads of insulation adhesive in accordance with manufacturer's installation guidelines.
- B. Install additional adhesive at roof perimeter, roof penetrations and drains.
- C. Adhere insulation boards in adhesive within 5 minutes after adhesive application.
- D. Walk on insulation boards to help spread adhesive for maximum contact. Repeat every 5-7 minutes until insulation boards are firmly attached.

3.XX CLEANING

- A. Remove excess Product from adjacent surfaces not intended to receive adhesive.

END OF SHORT FORM