



Dow Building Solutions

1 PRODUCT NAME

INSTA STIK™ Quik Set Commercial Roofing Adhesive

2 Manufacturer

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3 Product Description

INSTA STIK™ Quik Set Commercial Roofing Adhesive is a single-component polyurethane adhesive dispensed from a portable disposable pre-pressurized container requiring no external power source.

BASIC USE

INSTA STIK™ Quik Set is used to attach compatible roof insulation boards to roof decks and substrates in new roof and roof replacement applications, including insulation board to insulation board, insulation board to Class I graveled and non-graveled (bald) built-up roofs for recovery applications, and insulation or gypsum board to 22 gauge and thicker steel decks and wood decks.

ADVANTAGES

- No outside power source required
- No off-ratio concerns
- No overspray
- No fastener/steel deck corrosion
- No fastener back-out
- Resists effects of freeze/thaw cycles
- No reduction in thermal performance due to mechanical fasteners
- No structural deck damage caused by mechanical fasteners
- No compressed or melted insulation
- VOC-free
- No obnoxious odor
- No noise or vibration disruptions
- No building height restrictions
- No puncturing of vapor retarders
- Replaces hot asphalt
- Proven results – over 1 billion square feet of adhered insulation

ROOF DECK APPLICATIONS

INSTA STIK™ Quik Set can be used to attach multiple insulation layers and recovery boards to compatible decks and substrates.

Compatible Roof Insulations:

- STYROFOAM™ DECKMATE™ Plus FA extruded polystyrene insulation Type IV
- Extruded polystyrene*
- Polyisocyanurate
- High density wood fiber
- Perlite
- Expanded polystyrene, 1.0 pcf (16.02 kg/m³) minimum
- Oriented strand board (OSB)
- DensDeck gypsum roof board (trademark of Georgia-Pacific)
- USG SECUROCK fiber-reinforced roof board (trademark of USG Corporation)
- FOAMGLAS cellular glass (trademark of Pittsburgh Corning)

Compatible Roof Decks and Substrates:

- Poured-in-place concrete, minimum 28-day cure*
- Precast structural concrete
- Lightweight structural concrete, poured or plank
- Cementitious wood fiber plank (pull test required)
- Vapor barriers (tested and approved by Dow)
- Non-graveled (bald) Class I built-up roofs (pull test required)
- Graveled built-up roofs (pull test required)
- Spudded built-up roofs (pull test required)
- Steel (primed or painted)
- Galvanized steel*
- Wood

Additional preparation procedures are necessary for graveled and spudded built-up roofs. Refer to insulation manufacturer's FM Approvals listing for minimum insulation thickness requirements.

The FM Approvals are for specific combinations of insulation materials and substrates. Please consult FM Approvals or Dow to determine if the combination of roofing materials for a specific roofing project meets the desired approval required.

INSTA STIK Quik Set Commercial Roofing Adhesive

STEEL DECK APPLICATIONS

Compatible Steel Deck Types:

- Minimum 22 gauge steel; Types A, B, E, F, H and N
- INSTA STIK™ Quik Set can be used as a non-warranted, temporary attachment (for up to 30 days) with compatible insulation for architectural metal applications.

Compatible Roof Insulation and Gypsum Boards to Steel Decks:

- Perlite
- Polyisocyanurate
- Fire-rated gypsum board; 5/8" (15.9 mm) minimum thickness
- DensDeck fiberglass-faced gypsum roof board (trademark of Georgia-Pacific); 1/4" (6.4 mm) minimum thickness

NON-COMPATIBLE APPLICATIONS

Non-compatible Roof Insulation Boards:

- Fiberglass
- Foil-faced insulation

Non-compatible Substrates:

- Coal tar for pitch built-up roofs
- Lightweight insulating concrete
- Active asphalt*
- Unapproved base sheets

COMPOSITION AND MATERIALS

INSTA STIK™ Quik Set is a single-component, moisture-cured polyurethane adhesive that is free of conventional solvents.

INSTA STIK™ Quik Set Complete is supplied in a 30 lb (13.6 kg) unit, 23 lb (10.43 kg) net chemical weight, with a flexible dispensing hose and wand assembly. An on/off ball valve at the end of the dispensing hose allows operational control for single-hand application. A flare-tipped nozzle (supplied) is ideal for use on fluted metal decks or in high wind conditions.

INSTA STIK™ Quik Set Tank Only is supplied in a 30 lb (13.6 kg) unit, 23 lb (10.43 kg) net chemical weight, with no dispensing equipment.

LIMITATIONS

INSTA STIK™ Quik Set is not approved for use:

- for polyisocyanurate insulation boards exceeding 4' x 4' (1.2 m x 1.2 m); all other insulation and recovery boards can be adhered up to a 4' x 8' (1.2 m x 2.4 m) size
- when surface or ambient temperatures are below 33°F (0.55°C) or above 110°F (43°C) (application)
- during inclement weather
- on wet surfaces or on decks with standing water
- on surfaces with frost, ice or snow
- on loose gravel or on excessively dirty or grease-laden surfaces
- if the product has expired
- in attaching base sheets and membranes
- on all active asphalt

INSTA STIK Quik Set is not recommended for use on roof decks greater than 2:12 slope. For higher slopes, contact Dow for additional guidelines.

Dow accepts no responsibility for judging the acceptability of the roof substrate or for the roof system's structural integrity.

ACCESSORIES

The dispensing of INSTA STIK™ Quik Set can be dramatically increased using the Multi-Bead Applicator from Dow. The use of the applicator is recommended on roof decks with few penetrations and obstructions. Please contact Dow for availability.

4 Technical Data

APPLICABLE STANDARDS

Underwriters Laboratories, Inc. (UL) – UL 1897 Standard for Safety for Uplift Tests for Roof Covering Systems

Note: INSTA STIK™ Quik Set Commercial Roofing Adhesive has been tested under UL 1897 wind uplift resistance tests for steel deck applications. If INSTA STIK Quik Set is used in a UL Class A rated roofing system, the roofing system will maintain its UL Class A rating.

APPROVALS

FM Approvals:

INSTA STIK™ Quik Set meets the requirements of the following fire and wind uplift resistance tests for roof deck applications approved by FM approvals:

Flat (Specific Roof Assembly)

- | | |
|---------------|---------------|
| • Class 1-60 | • Class 1-195 |
| • Class 1-90 | • Class 1-210 |
| • Class 1-135 | • Class 1-225 |
| • Class 1-150 | • Class 1-240 |
| • Class 1-165 | • Class 1-270 |
| • Class 1-180 | |

Tapered (Specific Roof Assembly)

- | | |
|---------------|---------------|
| • Class 1-135 | • Class 1-195 |
| • Class 1-150 | • Class 1-240 |
| • Class 1-165 | • Class 1-315 |
| • Class 1-180 | |

Dade County (Florida):

INSTA STIK™ Quik Set meets the requirements of Metropolitan Dade County, Florida, windstorm and fire classification for roof deck applications.

Miami Dade Notice of Acceptance Number – 02-0726.01, expires 10/10/2007.

5 Installation

INSTA STIK™ Quik Set Commercial Roofing Adhesive is easy to use. The ideal chemical temperature at the time of application should be 75°F (24°C). The minimum ambient and surface temperatures must be 33°F (0.55°C) and rising. INSTA STIK Quik Set is packaged in a single container that should be stored between 50°F and 75°F (10°C and 24°C). At these temperatures, the shelf life for the 30 lb unit is 15 months from the date of manufacture.

SAFETY

Before dispensing INSTA STIK™ Quik Set, the applicator must observe the following precautions: Wear protective clothing, work gloves and protective eyewear.

SURFACE PREPARATION

All surfaces must be free of any debris, dirt, dust, grease, oil, diesel fuel and standing water before INSTA STIK™ Quik Set is applied.

For detailed installation instructions, contact a local Dow representative or access the literature library at www.dowstyrofoam.com/architect or www.dowstyrofoam.ca/4architects.

6 Availability & Cost

AVAILABILITY

INSTA STIK™ Quik Set Commercial Roofing Adhesive is available at authorized INSTA STIK Quik Set commercial roofing distributors in North America.

COST

INSTA STIK™ Quik Set and Multi-Bead Applicator pricing information can be obtained from authorized INSTA STIK Quik Set commercial roofing distributors. For more information and distributor locations, call:
1-800-232-2436 (English)
1-800-565-1255 (French)

7 Warranty

The Dow Chemical Company will warrant, at no additional cost, the adhesion of INSTA STIK™ Quik Set Commercial Roofing Adhesive for a period of ten (10) years to specified compatible materials and substrates. Requirements to qualify for a 10-year warranty include the following:

- Prior to commencement of job, a Pre-Job Qualification Form must be submitted to Dow
- The contractor must receive the Letter of Intent to Warrant from Dow
- The contractor must be an approved INSTA STIK Quik Set applicator
- The contractor must apply the proper quantity of INSTA STIK Quik Set to achieve desired adhesion as per the Letter of Intent to Warrant
- INSTA STIK Quik Set must be applied with Dow approved dispensing equipment
- The roofing substrate and insulation boards must be of a type approved by Dow as compatible with the use of INSTA STIK Quik Set
- A licensed INSTA STIK Quik Set instructor, authorized to perform adhesion tests, must be on site to complete a satisfactory adhesion test prior to the application of INSTA STIK Quik Set when required by the Letter of Intent to Warrant
- The contractor must submit to Dow a copy of the signed Letter of Intent to Warrant, INSTA STIK Quik Set Job Start/Completion Notice, copies of all invoices showing the quantity of INSTA STIK Quik Set purchased, and any applicable warranty fees
- With all installations, the roofing contractor is responsible for the cleanliness of the deck as well as ensuring that the insulation materials are in complete contact with the adhesive until it has completely cured

Fifteen- or 20-year warranties may be purchased from Dow. Full system warranties are available through multiple membrane manufacturers. Contact Dow for more information.

8 Maintenance

INSTA STIK™ Quik Set Commercial Roofing Adhesive and roof insulation components should be kept dry for the life of the roof.

9 Technical Services

Dow can provide technical information to help address questions when using INSTA STIK™ Quik Set Commercial Roofing Adhesive. Technical personnel are available to assist with any roofing adhesive project. For technical assistance, call:
1-866-583-BLUE (2583) (English)
1-800-363-6210 (French)

10 Filing Systems

- www.dowstyrofoam.com/architect
- www.dowstyrofoam.ca/4architects
- www.sweets.com

IN THE U.S.:

- For Technical Information: **1-866-583-BLUE (2583)**
- For Sales Information: **1-800-232-2436**

THE DOW CHEMICAL COMPANY

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IN CANADA:

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INSTA STIK™ Quik Set Commercial Roofing Adhesive contains chemicals that require the use of gloves, glasses and adequate ventilation or respiratory protection. Please read the warnings and instructions on the can and the Material Safety Data Sheet carefully before using. INSTA STIK Quik Set Adhesive should be stored away from heat sources.

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including Dow can give assurance that mold will not develop in any specific system.

