



INSTA-STIK™

Professional Roof Insulation Adhesive

Description

INSTA-STIK™ is a moisture-curing one-component polyurethane roofing adhesive. It comes in a portable, disposable pressurised container requiring no external power source. It contains an environmentally safe propellant, which complies with the latest EU regulations banning all CFC- and HCFC-propellants, and does not contain any strong solvent.

Typical areas of Application

Roof Insulation Adhesive for new roof or roof replacement applications, to attach:

- Compatible insulation boards to a wide range of substrates on flat roofs,
- Compatible insulation boards to compatible insulation boards on flat roofs,
- Compatible fleece-back membranes to a wide range of substrates on flat roofs.

Packaging

Product Part# 157846:

1* Steel Tank in carton box (Net Weight: 10.4 kg; Gross Weight: 13.6 kg)

1* Operating Instructions leaflet

Accessories: Part# 226506 includes 10 items of:

1* Flexible dispensing hose

1* PVC dispensing wand

Handling and Storage

Store and transport canister always in an upright position and in dry conditions.

Storage temperature: 10°C – 25°C

Shelf life: 15 months

Recommended Process Conditions

Prior to applying the adhesive, surfaces must be firm, clean and free of dust, grease or loose particles. Not approved for use on wet surfaces or on decks with standing water.

INSTA-STIK™ can be used at ambient temperatures from +5°C to +35°C. The product temperatures at the time of application should be 18°C - 25°C.

INSTA-STIK™ has been designed to be used in low slope commercial roofing applications. It is not approved for use on decks greater than 2:12 slope.

Recommended Process Application

Getting INSTA-STIK™ ready to use:

- Remove cylinder from the carton. Shake vigorously for a minimum of 20 seconds using a side-to-side motion before attaching hose.
- Attach the swivel hose fitting on the end of the dispensing hose to the threaded part of the cylinder valve. Once it is seated properly, tighten securely.
- Make sure brass ON/OFF valve attached to the dispensing hose is in the OFF position.
- Attach the double threaded wand to the dispensing hose ON/OFF valve. Hand tighten.
- Slowly open the valve at the top of the cylinder until fully open. CHECK FOR LEAKS. If there are no leaks, INSTA-STIK™ is ready for use.

Applying INSTA-STIK™:

- Before dispensing INSTA-STIK™, point wand in empty carton to allow for initial burst.
- To dispense INSTA-STIK™, slowly move the trigger of the ON/OFF valve to the ON position. Flow may be controlled by this ON/OFF valve.
- About 5 seconds before you want INSTA-STIK™ to stop flowing, close the ON/OFF valve by moving the trigger to the OFF position. It is normal for a small amount of adhesive to flow from the nozzle after the valve is closed.

INSTA-STIK bead size should be 19mm to 25mm wide.

The distance between the beads may vary with building height, parapet walls... Refer to the datasheet application table below.

Applying insulation boards:

The insulation boards must be placed end-to-end with joints in alternating rows. It is recommended to place beads perpendicular to the larger board section.

In multiple layers of insulation, the staggered joint method must be used to eliminate thermal breaks. INSTA-STIK™ beads should be dispensed perpendicular to the direction beads were dispensed on previous layer.

Set boards into the beads within 3 minutes. Walk on the boards immediately to spread the beads for maximum contact. Continue to walk on the insulation boards every 4-6 minutes until the insulation is firmly attached, usually 20-45 minutes.

Humidity directly affects curing rate. Under low humidity conditions, the adhesive cures slower and the insulation boards must be walked on more often until firmly attached.

For details on temporary storage, restart, disposable, refer to the Operating Instructions provided in the carton box.

Typical Product Properties

INSTA-STIK™ is tested extensively by Factory Manual and Underwriters Laboratories and other European testing authorities (more details upon request.)

Typical Compatible Roof Insulations

Mineral wool fiber boards

Expanded polystyrene boards

Cellular Foam glass

Wood fiber boards

Perlite

Oriented Strand Boards (OSB)

Polyisocyanurate boards

Fiberglass Faced Gypsum roof boards

Cork

Bituminous felt faced boards

Extruded Polystyrene (DOW Styrofoam™)

Typical Compatible Roof Decks & Substrates

Existing bituminous felt roof

Sanded finish felt vapor control layer

Asphalt

Pre-cast / lightweight structural concrete

Poured-in-place concrete (28 days cured min.)

Cementitious wood fiber plank (pull test required)

Lightweight structural plank

Approved Vapor Layers (call Technical Support)

Galvanized Steel decks (min. 0.7mm gauge steel)

Plastisol coated steel

Painted steel

Plywood

Sanded Bituminous Felt

Galvanized Metal Deck

Fleece-back Membrane

Not recommended for (non-exhaustive list):

- Insulation board with foil fascia,
- Active Asphalt substrate,
- Insulation board to a polyethylene vapour control
- Bitumen surface to bitumen surface
- PIB membranes

Coverage is approximately 104m² per tank of INSTA-STIK™ when distance between beads is 30cm.

Coverage is approximately 69m² per tank of INSTA-STIK™ when distance between beads is 20cm.

Typical Physical Properties ⁽¹⁾

	Units	Test Method
Colour	Light yellow	Visual
Tack free time	min	DOW internal method

1. Based on test methods mentioned above, all data are given for non-aged foam evaluated @ 20°C, 50 % relative humidity.

Application Rates ⁽²⁾

Building Height (m)	Parapet wall height (mm)	Attachement of Insulation boards			Attachement of fleece-back membranes	
		Perimeter band width (m)	Perimeter application rate (mm)	Field application rate (mm)	Perimeter application rate (mm)	Field application rate (mm)
0 – 6.0	0 – 610	0.9	150	300	150	200
	610+	0	300	300	200	200
6.0 – 12	0 – 610	2	150	300	150	200
	610 – 1200	0.9	150	300	150	200
	1200+	0	300	300	200	200
12 – 21	0 – 610	3	150	300	150	200
	610 – 1200	2	150	300	150	200
	1200+	0.9	150	300	150	200
21 – 31	0 – 610	4	150	230	150	200
	610 – 1200	3	150	300	150	200
	1200+	3	150	300	150	200
31 – 61	0 – 610	4	150	230	150	200
	610 – 1200	4	150	230	150	200
	1200+	4	150	300	150	200
61 – 91	0 – 1200	4	150	230	150	200
	1200+	4	150	230	150	200
91+	-	0	150	150	150	150

2. Based on 19-25 mm diameter bead. Evaluated internally, based on the Factory Mutual Loss Prevention Manual.

Safety Considerations

Material Safety Data (MSD) sheets are available from The Dow Chemical Company. MSD sheets are provided to help customers satisfy their own handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations. MSD sheets are updated regularly, therefore, please request and review the most current MSD sheet before handling or using any product. These are available from the nearest Dow sales office.

Customer Notice

Dow encourages its customers to review their application of Dow products from the standpoint of human health and environmental quality. To help ensure that Dow products are not used in ways for which they were not intended or tested, Dow personnel will assist customers in dealing with ecological and product safety considerations. Your Dow sales representative can arrange the proper contacts.

Contact information :

For more information about PU Consumer & Building products, call The Dow Chemical Company :
<http://www.dow.com/pusystems/index.htm>

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