



Building Solutions



INSTA-STIK Professional Roofing Adhesive

INSTA-STIK roofing adhesive in a tank: portable, quick and easy to use

INSTA-STIK™ roofing adhesive for professionals has been developed for the attachment of insulation boards and fleece-backed single-ply membranes to a variety of substrates on flat roofs*.

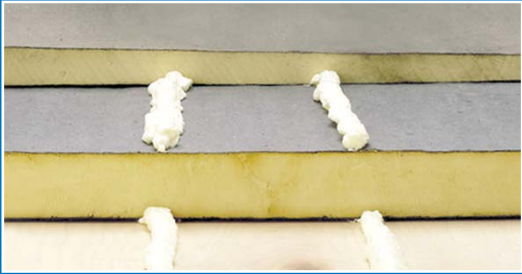
INSTA-STIK Roofing STD is offered as a portable, pressurized container requiring no external power source. It is a cold applied system that is quick to apply, easy to use and provides fast adhesion.



* Please refer to the manufacturers of adjacent layers to determine their compatibility, in terms of bonding, with INSTA-STIK roofing adhesive.

INSTA-STIK Roofing STD is compatible with the following insulation boards:

- »» Bituminous felt faced boards
- »» Cork insulation boards
- »» Cellular glass insulation boards
- »» Expanded polystyrene boards (EPS)
- »» Extruded polystyrene boards (XPS)
- »» Glass tissue faced boards
- »» Rock fibre boards
- »» Wood fibre boards



INSTA-STIK Roofing STD is compatible with the following vapour barriers and substrates:

- >>> Bituminous vapour control layers
- >>> Concrete decks
- >>> Galvanized metal decks
- >>> Mastic asphalt
- >>> Oriented strand boards
- >>> Plywood
- >>> Proprietary vapour barriers and existing bituminous built-up roofing

Important notes:

Note that generally, and especially for galvanized metal decks, surfaces must be free from oil and grease. For information on compatibility of INSTA-STIK roofing adhesive to other building materials and substrates than those listed, please refer to the local Dow office or distributor of INSTA-STIK products. Please refer to the manufacturers of adjacent layers to determine their compatibility, in terms of bonding, with INSTA-STIK roofing adhesive. INSTA-STIK should not be used to bond bitumen faced boards to bitumen surfaces. Also note that before installation, the suitability of the roof assembly to resist wind loading must be assessed in accordance with national requirements.

Table 1 - INSTA-STIK ROOFING STD APPLICATION FOR ATTACHMENT OF INSULATION BOARDS

Building height (m)	Parapet height (mm)	Perimeter band width (m)	Spacing (mm) at perimeter	Spacing (mm) central roof area
0 - 6.0	0 - 600	1.0	150	300
	600+	0	300	300
6.0 - 12.5	0 - 600	2.0	150	300
	600 - 1200	1.0	150	300
	1200+	0	300	300
12.5 - 21.5	0 - 600	3.0	150	300
	600 - 1200	2.0	150	300
	1200+	1.0	150	300
21.5 - 30.5	0 - 600	4.0	150	300
	600 - 1200	3.0	150	300
	1200+	3.0	150	300

Coverage is up to 100m² of insulation per tank of INSTA-STIK Roofing STD for 19-25mm wide beads at 300mm spacing. The above centres are based on an adhesive bond strength of 1.5kN/m bead length (19-25mm width) between substrate and insulation.

Because of greater wind pressures exerted in perimeter areas, it is recommended that fixing should be increased in such zones.

Features and benefits of INSTA-STIK Roofing STD

- »»» Quick, clean and easy to apply
- »»» Controlled and accurate dispensing thanks to wand applicator
- »»» High yield: one INSTA-STIK Roofing STD tank adheres up to 100m² of material
- »»» Fast curing* and strong bond strength
- »»» Short preparation time as no heating required
- »»» No primer needed
- »»» Safety: no hot works, naked flames, noise or vibration in use
- »»» Cleanliness: no fumes or dust in use
- »»» No damage to substrate from mechanical fixings
- »»» No visible fasteners on the underside of the substrate
- »»» Can be used on vertical substrates such as upstands
- »»» No thermal bridging

* In low humidity conditions, INSTA-STIK adhesive will take longer to cure.

Table 2 - INSTA-STIK ROOFING STD APPLICATION FOR ATTACHMENT OF FLEECE-BACKED MEMBRANES

Building height (m)	Parapet height (mm)	Perimeter band width (m)	Perimeter bead band	Spacing (mm) central roof area
0 - 6.0	0 - 600	1.0	150	200
	600+	0	200	200
6.0 - 12.5	0 - 600	2.0	150	200
	600 -1200	1.0	150	200
	1200+	0	200	200
12.5 - 21.5	0 - 600	3.0	150	200
	600 -1200	2.0	150	200
	1200+	1.0	150	200
21.5 - 30.5	0 - 600	4.0	150	200
	600 -1200	3.0	150	200
	1200+	3.0	150	200

Coverage is up to 70m² of membrane per tank of INSTA-STIK Roofing STD, with 19-25mm beads at 200mm spacing. The table is based on tests done with fleece-backed membranes in Europe.

How to use INSTA-STIK Roofing STD

Before applying INSTA-STIK Roofing STD:

»» Surfaces should be firm, clean, and free of dust, grease or loose particles.

»» **Wear suitable protective eyewear and gloves at all times when using.**

- 1 Remove tank from the carton. Shake vigorously for a minimum of one minute using a side-to-side motion before attaching hose.
- 2 Attach the swivel hose fitting on the end of the dispensing hose to the threaded part of the tank valve. Once it is seated properly, tighten securely.
- 3 Make sure the brass ON/OFF trigger valve attached to the dispensing hose is in the OFF position
- 4 Attach the double threaded wand to the dispensing hose ON/OFF trigger valve. Hand tighten.
- 5 Slowly open the valve at the top of the tank until it is completely open **whilst checking for leaks.** If there are leaks, stop and retighten all joints, ensuring no cross threading, then re-check. If there are no leaks, INSTA-STIK Roofing STD is ready for use.
- 6 Before dispensing INSTA-STIK Roofing STD, slowly move the ON/OFF trigger valve towards the ON position. Flow may be controlled by this ON/OFF valve.
- 7 About five seconds before you want the flow of INSTA-STIK Roofing STD to stop, close the ON/OFF valve by moving the trigger valve to the OFF position. It is normal for a small amount of adhesive to flow from the nozzle after the valve is closed.
- 8 Dispense INSTA-STIK Roofing STD onto the substrate. For bead size and spacing refer to tables 1 and 2.

NOTE: INSTA-STIK can also be applied on to the insulation board. Where possible beads should run across the width of the insulation boards rather than the length.

How to use INSTA-STIK Roofing STD

- 9 When applying INSTA-STIK Roofing STD, the insulation boards must be placed end-to-end with staggered joints in alternating rows. Set boards into the adhesive beads ideally within three minutes and then, for maximum contact, walk on the boards immediately to spread the beads. Continue to walk on the insulation boards every 5-7 minutes until the insulation is firmly attached, which can take between 20-45 minutes.
NOTE: Humidity directly affects curing time. In low humidity conditions, INSTA-STIK adhesive will take longer to cure.
- 10 After emptying an INSTA-STIK Roofing STD tank remove the wand and hose and attach to a new INSTA-STIK Roofing STD tank. Procedure: Close tank valve, open ON/OFF trigger valve to release residual pressure. Undo the swivel hose fitting from the tank and transfer to a new tank. Dispense some INSTA-STIK immediately.
- 11 Before disposal, open the trigger valve to release any residual pressure and place the tank upside down in the original carton.

Further suggestions

- »» Store between temperatures of +10°C and +25°C for best results.
- »» Ambient and substrate temperature +5°C to +40°C.
- »» When not in use (including overnight), stand wand in vertical position, leave the trigger valve on the top of the tank open and close the ON/OFF valve making sure to leave adhesive in the hose length. Store in a safe and secure place.
- »» If the end of the wand becomes blocked cut off approximately 10-25mm until clear.
- »» All pressure must be released from tank before disposal.
- »» Minimum thickness of steel in metal decks: 0.7 mm.

Note:

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