



DOW

Insta-Stik

**Professional
Roof Insulation
Adhesive**

Insta-Stik professional roof adhesive is a single component polyurethane adhesive dispensed from a portable, disposable pre-pressurized container requiring no external power source.

Insta-Stik is used to attached compatible roof insulation boards to roof decks and substrates in new construction and roof replacement applications. This includes insulation board to insulation board, insulation board to Class 1 non-graveled (bald) build-up roofs for re-cover applications and insulation or gypsum board to 22 gauge and thicker steel decks and wood decks.

Wood Deck:

Insta-Stik works on wood decks whenever metal fasteners are not desired. The insulation is securely held without damaging the structural integrity of the wood deck. When the underside of the deck is visible, there are no unsightly fasteners points sticking through.

Concrete Deck:

Roof top productivity is greatly increased by using Insta-Stik. No tedious and noisy predrilling required. Compatible with EPS (expanded polystyrene) insulation and wood fiber board, Insta-Stik gives you the ability to choose the right insulation type for the job.

Metal Deck:

Insta-Stik is the smart choice when it comes to metal decks. when the project demands that no fasteners penetrate the deck due to electrical conduits, exposed underside of deck, thermal bridging concerns, or environmental conditions, then Insta-Stik is your proven fastener.

Non-compatible Applications

Non-compatible Roof Insulation Boards:

- Extruded polystyrene
- Fiberglass

Non-compatible Substrates:

- Coal tar pitch built-up roofs
- Lightweight insulating concrete
- Active asphalt

Composition & Materials

Insta-Stik Professional Roofing Adhesive is a single component, moisture cured polyurethane adhesive. Insta-Stik is free of conventional solvents. Insta-Stik Complete is supplied in a 30 Lb (14 kg) unit, 23 Lb (10 kg) net chemical weight, with a 4' (1 m) flexible dispensing hose and two 14" (356 mm) PVC dispensing wands, with coupler. A brass ball valve at the end of the dispensing hose allows operational control for single-hand application. Insta-Stik Tank Only is supplied in a 30 Lb (14 kg) unit, 23 Lb (10 kg) net chemical weight, with no dispensing equipment. The tank only is ideal for use with the Multi-Bead Applicator.

Accessories:

The dispensing of Insta-Stik can be dramatically increased using the Multi-Bead Applicator (MBA-28) and Day Pak System (DPS-4) accessory kits. The MBA-28 dispenses 4 equidistant beads of Insta-Stik within a 4' (1 m) wide path. Each MBA-28 is supplied with 2 Day Pak Systems. The DPS-4 is the dispensing tubing for the MBA-28. The DPS-4 must be replaced daily or whenever cured Insta-Stik blocks or restricts flow within the tubing. The use of the MBA-28 is recommended on roof decks with few penetrations and obstructions.

Limitations

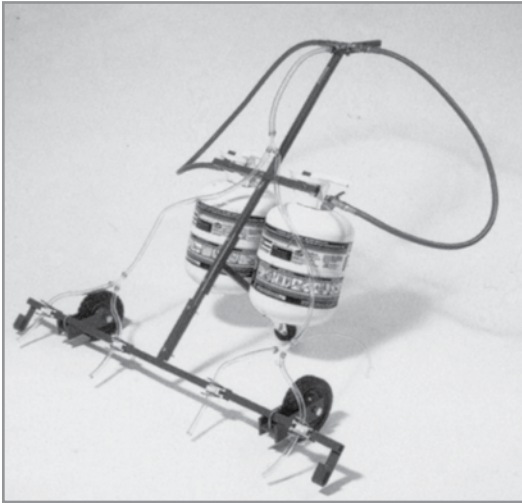
- Insta-Stik is not recommended for use with insulation boards larger than 4' X 4' (1 m X 1 m).
- Insta-Stik is not recommended for residential roofing applications.
- Insta-Stik is not recommended for application when surface or ambient temperatures are below 40° F (4° C) or above 110° F (43° C).
- Insta-Stik is not recommended for use during inclement weather.
- Insta-Stik is not recommended for use on wet surfaces.
- Insta-Stik is not recommended for use on gravel, excessively dirty, or grease-laden surfaces.
- Insta-Stik is not approved for use if the product has expired.
- Insta-Stik is not recommended for use on roof decks greater than 2:12 slope. For higher slopes, contact Technical Support.
- Insta-Stik is not recommended for use in attaching base sheets and membranes.

Flexible Products Company accepts no responsibility for judging the acceptability of the roof substrate or for the roof systems structural integrity.





TECHNICAL DATA



Approvals

Factory Mutual (FM):

Insta-Stik professional Roofing Adhesive meets the requirements of the following FM fire and wind uplift resistance tests for FM approved roof deck applications:

Flat

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

Tapered

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

Insta-Stik has the only industry adhesive approval on tapered systems. Please consult with Technical Support or Flexible Products' listing in the latest Factory Mutual Approval Guide for details.

Dade County (Florida)

Insta-Stik Professional Roofing Adhesive meets the requirements of Metropolitan Dade County, Florida, windstorm and fire classifications for roof deck applications.

Insta-Stik is packaged in a single container that should be stored between 45° F (7° C) and 75° F (24° C). At these temperatures, the shelf life is 8 months from date of manufacture. The minimum product temperature at the time of application should be 70° F (21° C). The minimum ambient and surface temperatures must be 40° F (4° C).

Insta-Stik Handling Characteristics

Temperatures	Tackfree Time
40° F (4° C), 50% RH	35 minutes
75° F (24° C), 50% RH	15 minutes
120° F (49° C), 25% RH	13 minutes

Insta-Stik Application Rates ¹ Based On 3/4"-1"(19.1-25.4 mm) Diameter Bead

Building Height Ft (m)	Parapet Wall Height In (mm)	Perimeter Band Width Ft (m)	Perimeter Application Rate In (mm) OC	Field Application Rate In (mm) OC
0-20 (0-6)	0-24 (0-610)	3 (0.9)	6 (152)	12 (305)
	25+ (635+)	0	12 (305)	12 (305)
21-40 (6-12)	0-24 (0-610)	6 (2)	6 (152)	12 (305)
	25-48 (635-1219)	3 (0.9)	6 (152)	12 (305)
	49+ (1245+)	0	12 (305)	12 (305)
41-70 (13-21)	0-24 (0-610)	9 (3)	6 (152)	12 (305)
	25-48 (635-1219)	6 (2)	6 (152)	12 (305)
	49+ (1245+)	3 (0.9)	6 (152)	12 (305)
71-100 (22-31)	0-24 (0-610)	12 (4)	6 (152)	9 (229)
	25-48 (635-1219)	9 (3)	6 (152)	12 (305)
	49+ (1245+)	9 (3)	6 (152)	12 (305)
101-200 (31-61)	0-24 (0-610)	12 (4)	6 (152)	9 (229)
	25-48 (635-1219)	12 (4)	6 (152)	9 (229)
	49+ (1245+)	12 (4)	6 (152)	12 (305)
201-300 (61-91.5)	0-48 (0-1219)	12 (4)	6 (152)	9 (229)
	49+ (1245+)	12 (4)	6 (152)	9 (229)
301+ (91.8+)	--	0	6 (152)	6 (152)

¹ Coverage is approximately 500-800 ft² (47-74m²) per 23 lb (10 kg) tank of Insta-Stik depending on bead size.

Physical Properties of Insta-Stik Roofing Adhesive

Tensile Adhesion Concrete/Concrete	Lap Shear Adhesion Carbon Steel/Carbon Steel	Lap Shear Adhesion Galvanized Steel/Galvanized Steel	Peel Adhesion To Concrete
259 psi (1785 kPa)	342 psi (2356 kPa)	328 psi (2262 kPa)	18 lbf (80 N)

Note: Samples cured for 7 days at 75° F (24° C) 50% RH.



FROTH-PAK POLYURETHANE FOAM



DOW

FROTH-PAK

Two-Component Spray Polyurethane Foam System



Typical Physical Properties*

Property	ASTM Test Method	Result 1.75 pcf HCFC
Flexural Strength	C-203	
Parallel, psi		23.0
Perpendicular, psi		42.6
Apparent K Factor (BTU·in)/(ft ² ·hr·°F) Initial	C-518	0.143
Aged 6 months		0.187
Aged 12 months		0.196
Aged 18 months		0.204
Aged 24 months		0.208
Apparent R Value @ 1" (derived from K Factor)	---	
Initial		7.0
18 months		4.9
Accelerated Service Conditions Procedure "A"	D-756	
% Volume Change		2.97
% Weight Change		-1.75
Procedure "B"		
% Volume Change		1.05
% Weight Change		-2.19
Procedure "E"		
% Volume Change		9.91
% Weight Change		-2.84
Compressive Strength	D-1621	
Parallel, psi		22.0
Perpendicular, psi		8.4
Apparent Density, pcf	D-1622	1.70
Water Absorption (% water base)	D-2842	2.5
Dimensional Stability (% volume change)	D-2126	
100° F/100% RH, 1 week		0.38
100° F/100% RH, 2 weeks		0.91
158° F/100% RH, 1 week		15.57
158° F/100% RH, 2 weeks		14.02
-40° F/amb RH, 1 week		-0.40
-40° F/amb RH, 2 weeks		-0.04
-100° F/amb RH, 1 week		-3.70
-100° F/amb RH, 2 weeks		-1.13
158° F/amb RH, 1 week		3.70
158° F/amb RH, 2 weeks		3.65
212° F/amb RH, 1 week		1.48
212° F/amb RH, 2 weeks		1.16
Open Cell Content	D-2856	<8%
Tensile Strength	D-1623	
Parallel, psi		40.1
Perpendicular, psi		27.2
Shear Strength	C-273	
Parallel, psi		23.9
Perpendicular, psi		19.8
Water Vapor Transmission (perm-in)	E-96	3.0

* Tests performed by Insta-Foam Products, Inc. NVLAP Accredited Lab for 11 ASTM tests.
Copy of test report available upon request.

Product Description

Froth-Pak is a self contained, portable two-component polyurethane foam dispensing system that requires no outside power source and is disposable when empty (consult local authorities for proper disposal).

All Froth-Pak materials have been formulated utilizing either HCFCs or HFCs rather than traditional CFCs. HCFCs are 20 times less hazardous to the environment or the earth's ozone layer than CFCs.

Froth-Pak kits are available in a variety of densities in convenient, factory pressurized dispensers sized to facilitate any installation (see Size Table). Kits are supplied complete with gun-hose assembly and standard spray (NS) nozzles. Special purpose nozzles are available as optional extra (see Accessories Table).

Froth-Pak Accessories

Item
5-1/2 ft. gun hose assembly
7-1/2 ft. gun hose assembly
7-1/2 ft. gun hose assembly with nozzles
15 ft. gun hose assembly
15 ft. gun hose assembly with nozzles
Insta-Flo 12 Dispenser (Refill Kits)

Size Table

Kit	Density PCF (kg/m ³)	Theoretical Yield		Kit Contains	Ordering Information
		Board Feet	Cubic Feet (m ³)		
Froth-Pak	1.75 (28) 1.75 MSHA (28)	200	16.6 (0.470)	One "A" can, one "B" can, 10 spray nozzles, 7'-6" (2.3 m) gun-hose assembly, wrench, and vaseline pack	38 lbs (17.2 kg)/unit 30 units/pallet

Froth-Pak Nozzles (now Anti-Crossover)

Backcap Color	Nozzle Type	Spray Pattern
Yellow	Caulking	Bead, Ultra fine coverage
White	NS	Spray, Small area coverage
White	Fan	Fan Spray, Wide area coverage, Spray paint finish
Gray	NS	Spray, Small area coverage, Medium output
Black	Pour	Pour, High volume filling of large cavities
Other nozzles available - please call for information		

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Technical Data

Froth-Pak 1.75-25FS MSHA conforms to building code requirements for a Class 1 foam. When tested to ASTM E-84, the flame spread is 25 and the smoke developed is 350 at 2" (50 mm) thickness with full coverage.

Froth-Pak 1.75-25FS MSHA also conforms to Mine Safety and Health Administration (MSHA) surface flame spread requirement ASTM E-162 (flame spread index of 25 or less).

These tests do not purport to address all of the safety problems, if any, associated with its use.

Warning:

The foam produced by Froth-Pak is organic and is combustible and may constitute a fire hazard if improperly used.

Installation

For best results, remove any loose debris, dirt, dust or other deleterious material from surfaces.

Also, best results are obtained when chemical temperatures are 75° F (24° C).

Every Froth-Pak kit is self-contained and ready to use. Kits are factory pressurized and require no outside power source. With its convenient dispensing design, Froth-Pak simplifies set-up and use. Typically, a Froth-Pak kit consists of one "A" and one "B" cylinder in one carton plus a hose assembly and accessories.

Application

Every purchase of a Froth-Pak kit includes "Operating Instructions". A Material Safety Data Sheet is available upon request. Read all information and cautions before using Froth-Pak. "Operating Instructions" include information on operation, trouble shooting, yield, application tips, quality control, curing, storage, disposal, first aid, and similar information.

Precautions

Avoid contact with eyes and skin. ALWAYS wear protective eyewear, gloves, and clothing when operating. Use ONLY with adequate ventilation or NIOSH-certified respiratory protection. In unventilated areas, DO NOT remove respirator for AT LEAST 15 MINUTES after use. CONTENTS UNDER PRESSURE. To avoid possible explosion or fire, DO NOT puncture or incinerate. DO NOT refill or repressurize. DO NOT expose cylinders to temperatures above 120° F (49° C). The foam produced is combustible. DO NOT expose to heat, sparks or open flame. This product is NOT intended for use in applications where temperatures exceed 250° F (121° C). Store at temperatures between 60° F and 80° F (16° C and 27° C).



DOW



TILE BOND®

The Preferred Adhesive For
Roof Tile Installation

Fast, Trouble-Free, Lightweight, Convenient,
And Hurricane-Proven
Product Description/Application

Tile Bond® is a polyurethane adhesive used for adhering roofing tile to approved commercial or residential roof deck underlayments. This portable, disposable one component polyurethane adhesive provides superior attachment strength over other methods and can be used for new, reroof and tile roof repair applications. It reduces tile breakage and material costs while eliminating the need to purchase, transport and maintain heavy equipment.

Tile Bond makes installing and repairing residential or commercial tile roofs quick and easy, reducing labor costs and eliminating nailing on roofs with pitches up to 6:12. The 23 lb (10 kg) canister will adhere approximately 750 field tiles. The 20 oz (568 g) can will adhere approximately 40 field tiles.

Sizes

Tile Bond is available in a 23 lb (10 kg) canister complete kit which includes a dispenser with hose, 9/16" (14.3 mm) wrench, foam backer rod to illustrate proper patty size, and an instruction sheet. It is also available in a convenient 20 oz (568 g) can for quick and easy use.

Approvals:

- UL Class 1 listed (ASTM E84)
- Class A rated (ASTM E108)
- South Florida Building Code, Broward County, 1999 Edition
- Metro-Dade County Acceptance #99-0412.04 (Expires 10/01/01)
- SBCCI Evaluation Report #9744A (Refer to this evaluation report for code compliance.)

Installation:

Tile bond will adhere to the following roof tile types:

- 2 piece barrel profile
- High profile
- Medium profile
- Low/flat profile



adhesives



OlyBond – The most trusted name in insulation attachment



OlyBond® Insulation Adhesives are easy to use, hassle-free and designed to get you off the roof and onto the next job fast. OlyBond adhesives are approved for use on most roof decks and with all common insulation types. Whether you have 10 squares or 10,000, there's an OlyBond adhesive that's right for your next project.

OlyBond500® is the premiere insulation adhesive for low-slope roofing applications. The fast-acting, dual-component, low-rise polyurethane foam adhesive is odor and noise-free, and offers the lowest installed cost method of insulation attachment. Factory Mutual, Underwriters Laboratories, Florida Building Code and Miami Dade approved.

OlyBond500 Green is the perfect insulation adhesive for LEED and sustainable projects. With environmentally sensitive packaging and a low VOC, plant-based formula, OlyBond500 Green packs the same performance punch as the original OlyBond500. Factory Mutual, Florida Building Code and Miami Dade approved.

OlyBond Classic is a spray-applied, dual component adhesive used to fully adhere a wide variety of board stocks to most roofing substrates in both new and reroofing applications.



Rest easy with **NightShot™** temporary watertight tie-in. OlyBond NightShot forms a temporary seal between new single-ply roof covers and existing asphalt roof covers. NightShot comes in 1,500 ml cartridge sets and is compatible with new EPDM, TPO and PVC materials.



application tools

OMG offers several easy-to-use tools for applying OlyBond500 Insulation Adhesives:

PaceCart 2® is the exclusive applicator for dispensing OlyBond500. Capable of dispensing enough OlyBond500 to apply 60 squares of insulation per hour, this tool is the fastest, lowest-cost system available. The patent-pending PaceCart 2 features a clean, air-tight delivery system for Bag-in-Box technology.

The **Cordless Power Applicator** provides constant pressure for even, uninterrupted, adhesive flow and maximum efficiency. The Power Applicator significantly increases production when compared to hand applicators, and comes with two batteries and a charger.

