

Dow® Adhesives with Master Wall Systems

Dow® adhesives may be used to adhere Master Wall CIFS® insulation board to all approved substrates as well as a filler for insulation board gaps. Each tank adheres large areas quickly and may be used in low temperature conditions.

Coverage per tank

INSTA STIK™ 31: 1145-1300 sf (106-120 sm)

Coverage may vary depending upon application technique and surface conditions.

Packaging/Shelf Life/Storage

Packaging: 31 lb (13.6 kg) tank

Shelf Life: 15 months from date of manufacture

Storage: Protect from extreme heat (90°F (32°C), freezing and direct sunlight.

Technical Data

ASTM E84: INSTA-STIK: FS: 10, SD 5.
 Tensile Bond ASTM C297: Greater than 15psi, cohesive failure of insulation board.

Approved Substrates

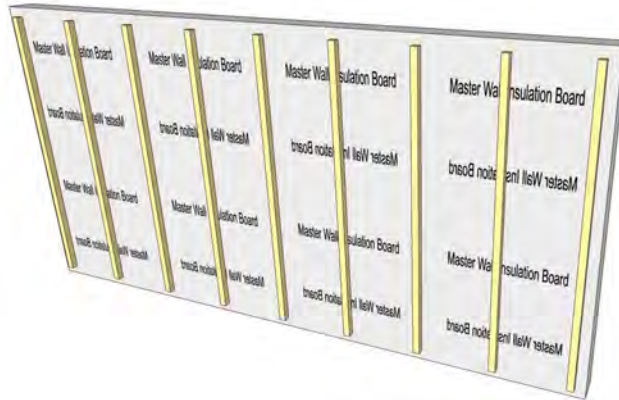
Exterior gypsum sheathing (ASTM C1396, C1177)
 Rollershield Applications
 Concrete
 Brick
 Masonry
 Others approved in writing

Apply ribbons as above. Temporary fasteners may be needed to hold the foam shape in place until the adhesive sets.

Features & Benefits

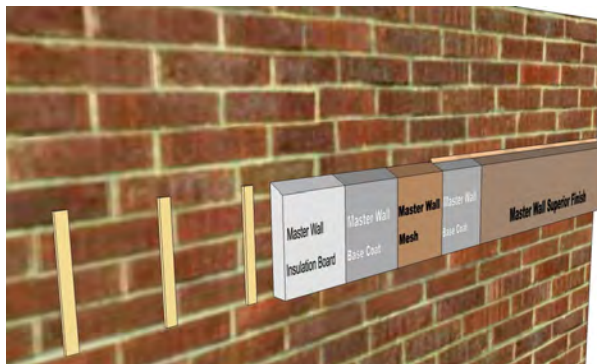
- Ready to use
- Single component
- Lightweight with excellent coverage
- Cures as fast as one hour
- Wide Temperature Range—33°F (1°C) to 110°F (43°C)
- VOC Free

Adhesive Application



Apply ribbons vertically about 6" (152 mm) apart with 3/8" (9.5 mm) tall adhesive beads. Keep adhesive about 3/4" (19 mm) away from edges and gently place board in place.

Foam Shape Application



Information contained in this product data sheet conforms to the standard detail recommendations and specifications for the installation of Master Wall Inc.® products and is presented in good faith. Master Wall Inc.® assumes no liability, expressed or implied as to the architecture, engineering, or workmanship of any project. This information may be concurrent with, or superseded by other applicable documents, such as specifications and details. Contact Master Wall Inc.® for the most current product information. ©2020 Master Wall Inc.®



masterwall.com



Dow Building Solutions

INSTA STIK™ Quik Set Commercial Roofing Adhesive Installation Procedures

INSTA STIK™ Quik Set Commercial Roofing Adhesive is a singlecomponent polyurethane adhesive. It is dispensed from a portable disposable pre-pressurized container requiring no external power source. INSTA STIK™ Quik Set is available in a 30 lb (13.6 kg) unit (23 lb [10.4 kg] net chemical weight).

INSTA STIK™ Quik Set is used to attach compatible insulation and coverboards 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 re-cover applications, and insulation or gypsum board to 22 gauge and thicker steel decks and wood decks.

For a faster, labor-saving application in a correct and repeatable pattern, the Multi-Bead Applicator from Dow holds three tanks of INSTA STIK™ Quik Set and allows application of up to eight beads of adhesive.

GENERAL INFORMATION

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 (1°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). The shelf life is 15 months from the date of manufacture.

SAFETY AND CONDITIONS OF USE

- Read the label and (Material) Safety Data Sheet ((M)SDS) carefully before use.
- Wear long sleeves, gloves, and goggles or safety glasses. Provide adequate ventilation or wear proper respiratory protection.
- INSTA STIK™ Quik Set Commercial Roofing Adhesive contains isocyanate and a blowing agent. Do not breathe vapor or mist. Use in wellventilated areas or wear proper respiratory protection. Isocyanate is irritating to the eyes, skin and respiratory system, and may cause sensitization by inhalation or skin contact.
- INSTA STIK™ Quik Set is very sticky and will adhere to most surfaces and skin. Do not get foam on skin. Wear gloves, and goggles or safety glasses. Cured foam must be mechanically removed or allowed to wear off in time.
- The contents are under pressure.
- **OUTDOOR USE ONLY. INDOOR USE INCREASES LIKELIHOOD OF IGNITABLE CONDITIONS.**
- **DO NOT SMOKE DURING USE. DO NOT USE NEAR ANY OPEN FLAME OR ELECTRICAL SOURCE.**
- The blowing agent contained within this product can exhibit vapor flame limits under the right conditions. If specific operating



conditions are such that concentrations of the blowing agent above the lower flammable limit can accumulate in areas with high relative humidity and in the presence of high-energy electrical discharges or other ignition sources, additional measures such as increased ventilation or coded electrical equipment (class one, division two) may be warranted.

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.

RE-COVER OVER (BUR)

A certified INSTA STIK™ Quik Set instructor, authorized to perform adhesion tests, must be on site prior to the commencement of the project to determine compatibility. Contact Dow at 1-866-583-BLUE (2583) at least 14 days in advance for further instructions.

STEEL DECK

On new steel, the residual shop oil coating must be removed using TSP, acetone, naphtha or comparable cleanser.

INSULATION

Polyisocyanurate insulation boards cannot exceed 4' x 4' (1.2 m x 1.2 m). All other boards may be installed up to a 4' x 8' (1.2 m x 2.4 m) size. In multiple layers of insulation, the staggered joint method should be used to eliminate thermal breaks.

PRODUCT AND EQUIPMENT INSTALLATION

The INSTA STIK™ Quik Set Complete Kit includes a steel tank, a 4' (1.2 m) flexible dispensing hose, two PVC dispensing wands, a 1/4" (6.4 mm) coupler and 9/16" (14 mm) wrench. The tank can also be purchased separately.

INSTA STIK™ Quik Set Commercial Roofing Adhesive should be shaken prior to use. Firmly hold the container on its side and agitate the contents using a side-to-side motion for at least 15 seconds. Attach the swivel hose fitting on the end of the dispensing hose to the threaded port of the cylinder valve. Once it is seated properly, tighten securely using an open-end wrench (supplied). Verify that the on/off valve is attached to the dispensing hose and is in the off position.

Attach either end of the threaded wand to the dispensing hose on/off valve. Tighten securely. Attach the coupler to the exposed end of the wand. Attach the second plastic wand to the coupler. Tighten securely.

Slowly open the valve at the top of the cylinder 1/2 to 1 revolution. Open further if higher velocity is desired. Check for leaks. If there are no leaks, INSTA STIK™ Quik Set is ready for use.

TYPICAL FIELD APPLICATION RATE

Use a parapet wall or gutter as a straight edge guide when dispensing the first bead of INSTA STIK™ Quik Set Commercial Roofing Adhesive. Dispense a minimum of 1 lineal foot (30 cm) of 3/4" - 1" (19 mm - 25 mm) diameter bead of INSTA STIK™ Quik Set for every square foot (30 cm²) of insulation board to be attached. Place the first bead of INSTA STIK™ Quik Set 6" (15 cm) inside the outside edge of the 4' (1.2 m) wide insulation board to be attached. Apply three additional parallel beads approximately 12" (30 cm) apart so that the fourth bead is 6" (15 cm) inside the opposite edge of the insulation board.

The application rate is dependent upon building height, building configuration and geographical wind zone. Contact Dow to determine recommended application rates.

IMPORTANT: When applying INSTA STIK™ Quik Set, the insulation boards must be placed onto the INSTA STIK™ Quik Set beads before becoming tack-free (2 to 8 minutes depending on humidity). Walk on the boards to spread the beads for maximum contact. Continue to walk on the insulation boards every 3 to 4 minutes until the insulation is firmly attached, usually within 10 to 20 minutes. Low humidity conditions will require longer cure time.

ROOF PENETRATIONS/DRAINS

A 3/4" - 1" (19 mm - 25 mm) diameter bead of INSTA STIK™ Quik Set is required around all roof penetrations and drains.

STEEL DECK APPLICATIONS

With the edge of the insulation board centered over an upper flange under standard application rate, apply a 3/4" - 1" (19 mm - 25 mm) diameter bead of INSTA STIK™ Quik Set on the first upper flange nearest the edge of the insulation board. Continue to apply 3/4" - 1" (19 mm - 25 mm) beads on the upper flange as specified. Contact Dow to determine recommended application rates.

DETERMINING APPLICATION RATES

Application rates are determined by following FM 1-28 and FM 1-29 guidelines as described below. Use the following criteria as a guideline in determining application rates for INSTA STIK™ Quik Set Commercial Roofing Adhesive. For further assistance, consult Factory Mutual 1-28 and 1-29 data sheets.

- Enclosed buildings – A building is considered enclosed if it does not comply with the requirements for partially enclosed buildings listed below.
- Partially enclosed buildings – A building with a windward wall where the total area of openings exceeds the sum of all other wall and roof openings by more than 10 percent; and the total area of openings exceeds 4 ft² (0.37 m²) or 1 percent of the area of that wall, whichever is smaller, and the sum of all other wall and roof openings does not exceed 20 percent
- Exposure "B," urban and suburban – Wooded terrain, numerous adjoining obstructions, large city centers
- Exposure "C," open terrain – Country, grasslands, airports, shorelines in hurricane zones (wind speeds of 120 mph [193 kph] or greater)
- Exposure "D," areas exposed to large bodies of water – Coastal areas greater than or equal to 1 mile (1.6 km) wide, areas extended inland from shore 1500' (472 m) or 10 times the height of the building (whichever is greater); hurricane coasts where the wind speed is less than 100 mph (160 kph)

The contractor is required to complete an INSTA STIK™ Quik Set Pre-Job Qualification Form and submit it to Dow.

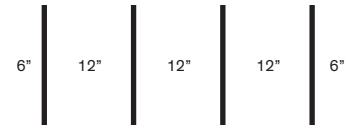
A representative will complete the calculations based on FM 1-28 and FM 1-29.

The contractor will need to determine the building exposure and the proper height with regard to the slope of the roof deck, as well as identifying surrounding terrain. For Exposure "B" job sites only, consult Table 1 for application details. For all other exposures and wind design requirements, contact Dow at 1-866-583-BLUE (2583).

Exposure B Class 1-90 Rated Systems Enclosed Building h: 60' h/w: 1 for 60' <h: <90' q: 10°												
Mean Roof Height	Basic Wind Speed, V (mph) Based on ASCE 7-98 (3-second gust)											
h (ft)	<85	90	100	110	120	130	140	145	150	160	170	185
Zone 1 (Field of Roof)												
15	15.0	17.0	21.0	25.0	30.0	35.0	41.0	43.0	47.0	53.0	60.0	71.0
30	15.0	17.0	21.0	25.0	30.0	35.0	41.0	43.0	47.0	53.0	60.0	71.0
60	18.0	20.0	25.0	31.0	36.0	43.0	49.0	53.0	57.0	65.0	73.0	86.0
89	20.0	23.0	28.0	34.0	41.0	48.0	55.0	60.0	64.0	72.0	82.0	97.0
Zone 2 (Perimeter of Roof)												
15	25.2	28.6	35.3	42.0	50.4	58.8	68.9	72.2	79.0	89.0	100.8	119.3
30	25.2	28.6	35.3	42.0	50.4	58.8	68.9	72.2	79.0	89.0	100.8	119.3
60	30.2	33.6	42.0	52.1	60.5	72.2	82.3	89.0	95.8	109.2	122.6	144.5
89	33.6	38.6	47.0	57.1	68.9	80.6	92.4	100.8	107.5	121.0	137.8	163.0
Zone 3 (Corner of Roof)												
15	38.0	43.0	53.1	63.3	75.9	88.5	103.7	108.8	118.9	134.1	151.8	179.6
30	38.0	43.0	53.1	63.3	75.9	88.5	103.7	108.8	118.9	134.1	151.8	179.6
60	45.5	50.6	63.3	78.4	91.1	108.8	124.0	134.1	144.2	164.4	184.7	217.6
89	50.6	58.2	70.8	86.0	103.7	121.4	139.1	151.8	161.9	182.2	207.5	245.4

Light Gray Areas (<45 psf):

Standard application rate – Place the first bead of INSTA STIK™ Quik Set 6" (15 cm) inside the outside edge of the 4' (1.2 m) wide insulation board to be attached. Apply three additional parallel beads approximately 12" (30 cm) apart so that the fourth bead is 6" (15 cm) inside the opposite edge of the insulation board.



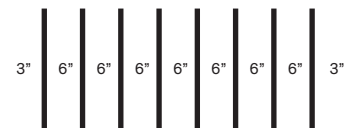
Dark Blue Areas (<67.5 psf):

Standard application rate – Place the first bead of INSTA STIK™ Quik Set 6" (15 cm) inside the outside edge of the 4' (1.2 m) wide insulation board to be attached. Apply four additional parallel beads approximately 9" (23 cm) apart so that the fifth bead is 6" (15 cm) inside the opposite edge of the insulation board.



Light Blue Areas (<90 psf):

Standard application rate – Place the first bead of INSTA STIK™ Quik Set 3" (8 cm) inside the outside edge of the 4' (1.2 m) wide insulation board to be attached. Apply seven additional parallel beads approximately 6" (15 cm) apart so that the eighth bead is 3" (8 cm) inside the opposite edge of the insulation board.



Dark Gray Areas:

NOT APPLICABLE (>90 psf); will not meet Class 1-90.

Note - Please check with Dow to verify if your roofing system configuration has been tested by Factory Mutual (FM).

In the U.S.
The Dow Chemical Company
Dow Building Solutions
2400, 215 – 2 Street S.W.,
Calgary, Alberta T2P 1M4

In Canada
The Dow Chemical Company Inc
Dow Building Solutions
2400, 215 - 2 Street S.W.,
Calgary, Alberta T2P 1M4

For Technical Information:
1-866-583-BLUE (2583) (English)
1-800-363-6210 (French)

For Sales Information:
1-800-232-2436 (English)
1-800-565-1255 (French)

dowbuildingsolutions.com

NOTICE: No freedom from any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries or regions. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO EXPRESS WARRANTIES ARE GIVEN EXCEPT FOR ANY APPLICABLE WRITTEN WARRANTIES SPECIFICALLY PROVIDED BY DOW. ALL IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. The buyer assumes all risks as to the use of the material. Buyer's exclusive remedy or any claim (including without limitations, negligence, strict liability, or tort) shall be limited to the refund of the purchase price of the material. Failure to strictly adhere to any recommended procedures shall release The Dow Chemical Company, and its subsidiaries, of all liability with respect to the materials or the use thereof. The information herein is not intended for use by non-professional designers, applicators or other persons who do not purchase or utilize this product in the normal course of their business.

CAUTION: When cured, these products are combustible and will burn if exposed to open flame or sparks from high-energy sources. Do not expose to temperatures above 240°F (116°C). For more information, consult (Material) Safety Data Sheet ((M)SDS), call Dow at 1-866-583-BLUE (2583) or contact your local building inspector. In an emergency, call 1-989-636-4400 in the U.S. or 1-519-339-3711 in Canada. The blowing agent contained within this product can exhibit vapor flame limits under the right conditions. If specific operating conditions are such that concentrations of the blowing agent above the lower flammable limit can accumulate in areas with high relative humidity and in the presence of high-energy electrical discharges or other ignition sources, additional measures such as increased ventilation or coded electrical equipment (class one, division two) may be warranted. DO NOT SMOKE DURING USE. DO NOT USE NEAR ANY OPEN FLAME OR ELECTRICAL SOURCE. OUTDOOR USE ONLY. INDOOR USE INCREASES LIKELIHOOD OF IGNITABLE CONDITIONS. INSTA STIK™ Quik Set Commercial Roofing Adhesive contains isocyanate and a blowing agent. Read the label and (Material) Safety Data Sheet ((M)SDS) carefully before use. Wear gloves, and goggles or safety glasses. Provide adequate ventilation or wear proper respiratory protection. Contents under pressure. For outside use only.