INSTA STIK™ Quick Set Commercial Roofing Adhesive

Compatibility Guidelines

Following is the general guideline of deck / insulation / coverboard compatibility with INSTA STIK™ Quik Set Commercial Roofing Adhesive. Please contact Technical Support at 1-866-583-BLUE (2583) for additional information.

DECKS/SUBSTRATES:

Concrete:
• New poured – requires 28 day cure.
• Lightweight structural concrete. Lightweight insulating is NON-ACCEPTABLE.
• Pre-cast concrete. Poured or Plank.
• Tiltiltup concrete.
• Existing decks – 15 & 20 year warranty requires a pull test. New decks do not require pull test.

Steel:
• 22 gauge minimum – lighter ga.
  decks have too much flex, therefore compromises the adhesion.
  No aluminum decks.
  - Gauges: 22, 20, 18
  - Types:
    A – Narrow rib 6” top flute
    B – Wide rib 2 ½” top flute
    F – Intermediate rib 1 ¾” top flute
    N – Deep rib 8” top flute
• The top flute (surface to receive INSTA STIK™ Quik Set Commercial Roofing Adhesive) must be free from dirt, dust, grease, diesel fuel and residential shop oil coatings before applying INSTA STIK™ Quik Set Commercial Roofing Adhesive. TSP, Acetone, naptha solvent or a comparable cleaner may be used. Power washing may be used with discretion as an alternate means of cleaning. The top flute must be free of any cleaner residue and must be dry before applying INSTA STIK™ Quik Set Adhesive.
• Existing steel decks (re-roofs) for a requested 15 or 20 year warranty requires a pull test. New decks do not require pull tests.
• No FM approvals unless base layer is mechanically attached and subsequent layers are being adhered with INSTA STIK™ Quik Set.

Wood (treated/untreated):
• Acceptable substrate; no FM approvals.
• Existing wood decks requesting a 15 or 20 year warranty must have a pull test. New decks do not require pull tests.

Cementitious Wood Fiber (a/k/a Tectum):
• Acceptable substrate
• Pull test required on existing Tectum for 10, 15 or 20 year. New decks do not require pull tests.

Recover:
• Class 1 BUR
  - Smooth surfaced BUR must be cleaned (free of dirt, dust and debris) prior to the application of INSTA STIK™ Quik Set.
  - Graveled BUR. Loose gravel spudded and removed prior to the application of INSTA STIK™ Quik Set.
  - Meets windstorm classification of the roof cover/insulation combination with a max of FM class 1-90 but may not exceed the windstorm classification of existing roof assembly.
  - All recover applications require a pull test.

UL 1897 uplift rating 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.

Gypsum:
• Poured or plank is acceptable, however, no FM approvals.
• The gypsum deck must be in physically sound condition with no deterioration or water damage.
• Existing gypsum decks requesting a 15 or 20 year warranty must have a pull test. New decks do not require pull tests.
• Gypsum can be chalky and must be cleaned prior to any INSTA STIK™ Quik Set application.

Wood (treated/untreated):
• Acceptable substrate; no FM approvals.
• Existing wood decks requesting a 15 or 20 year warranty must have a pull test. New decks do not require pull tests.

Cementitious Wood Fiber (a/k/a Tectum):
• Acceptable substrate
• Pull test required on existing Tectum for 10, 15 or 20 year. New decks do not require pull tests.

Recover:
• Class 1 BUR
  - Smooth surfaced BUR must be cleaned (free of dirt, dust and debris) prior to the application of INSTA STIK™ Quik Set.
  - Graveled BUR. Loose gravel spudded and removed prior to the application of INSTA STIK™ Quik Set.
  - Meets windstorm classification of the roof cover/insulation combination with a max of FM class 1-90 but may not exceed the windstorm classification of existing roof assembly.
  - All recover applications require a pull test.

Approved Vapor Barriers/Base Sheets:
• If not listed on current approval list, samples may be submitted for compatibility testing.
• No FM ratings.
• New/approved base sheets do not require pull tests.

High Density Asphalt Recovery Board such as Sopra Board:
• Low density asphalt recovery boards are generally not compatible
• High density asphalt recovery board generally compatible
• A pull test is required

Coal tar pitch BUR's:
• The approved specification MUST call for a minimum of 2” base layer of insulation, using a light-colored membrane for reflection (i.e., TPO) and the project must be located in a low temp/low humidity geographical area. INSTA STIK™ Quik Set Commercial Roofing Adhesive must be applied at 6” o.c. for entire roof area. Typically, non-compatible.
• There are two simple tests that can be performed to determine whether or not the bitumen in a BUR (build-up roof) is asphalt or coal tar pitch.
  - Specific gravity test: Place a chip sized piece of the questionable bitumen into a small container filled with water. If the bitumen floats for a short period of time then slowly sinks to the bottom of the container, it is asphalt. The density of asphalt is about 1.27. If a chip sized piece of the bitumen sinks rapidly, it is coal tar pitch. The density of the coal tar pitch is about 1.63.
  - Smoke test: A pocket knife and a cigarette lighter can be used for this test. Place a chip sized piece of the bitumen on a hot knife blade. If the smoke generated is white/grey the bitumen is asphalt. If the smoke generated is yellow/green, the bitumen is coal tar pitch.

1 Pull test to check adhesion must be performed by Dow approved technical representative.
Lightweight insulation concrete:
- Typically used in roof systems to create drainage. NOT STRUCTURAL. Always non-compatible, no exceptions.

Unapproved or non-tested base sheets/vapor barriers:
- Unapproved or tested by Dow and did not pass testing criteria.
- Non-tested – Specific product(s) have not been tested should be sent to Dow for testing.

Fiberglass Reinforced Decks
Wet, dusty, greasy surfaces

Active asphalt surfaces

Plywood:
- Use of any plywood as a coverboard is non-compatible with INSTA STIK™ Quik Set Commercial Roofing Adhesive. Moisture in plywood will distort the board. COMPATIBLE INSULATION/COVER BOARDS:

Polyisocyanurate:
Must be 4’ x 4’ boards, use of 4’ x 8’ will void warranty. Use of NON foil faced Polyisocyanurate boards only when using INSTA STIK™ Quik Set.
- Flat
- Tapered
- Minimum thickness 1 ½”

Perlite:
- Flat
- Tapered
- Minimum thickness ¾”

EPS:
- Flat
- Tapered
- 1.0 pcf minimum

XPS:
- ONLY STYROFOAM™ DECKMATE™ Plus FA from Dow Building Solutions
- Check with Dow on any other XPS products prior to granting approval/non-approval.

Wood Fiberboard:
- Min. ½” thick

Dens-Deck and Dens-Deck Primed/Gypsum Boards:
- Min. ¼” thick

Oriented strand board (OSB)
INSTA STIK™ Quik Set Commercial Roofing Adhesive LIMITATIONS:
- INSTA STIK™ Quik Set is not approved with 4’ x 8’ Polyisocyanurate boards, must be 4’ x 4’. (Note: All other insulation and cover boards are approved in 4’ x 8’ boards).

Wood Fiberboard:
- Min. ½” thick

Unapproved or tested base sheets:
- Unapproved or tested by Dow and did not pass testing criteria.

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.