

I.S.O. FIX™ II Adhesive

TIS # 805

ITEM NUMBER: W56RACINSA

Description:

I.S.O.FIX II Adhesive is a single component, moisture cured, polyurethane adhesive designed to attach acceptable roof insulations to acceptable substrates. It may also be used to attach multiple layers of insulation. I.S.O.FIX II Adhesive can be used to attach insulation under Fully Adhered, Modified Bitumen, and Built-Up roofing systems. I.S.O.FIX II Adhesive is dispensed from a pressurized, portable, disposable container using the flexible dispensing hose and dispenser wands sold separately. (Firestone Item Number: W56RACINSH). The maximum slope is 2":12" (51 mm:305 mm). Firestone Building Products standard warranties are available up to 30-year warranty period. Please refer to the Firestone Technical Database at www.firestonebpco.com for specific warranty requirements.



Method of Application:

1. Install only as much roof insulation as can be covered and made watertight during the working day.
2. The substrate must be clean, smooth, dry, free of sharp edges, loose and foreign materials, oil, grease, and other contaminants.
3. I.S.O.FIX II Adhesive shall be mixed prior to use by firmly holding the container on its side and agitating the contents using a side-to-side mixing motion for at least 15 seconds.
4. Maintain the I.S.O.FIX II Adhesive container in an upright position during dispensing, as well as storage.
5. Apply beads of I.S.O.FIX II Adhesive on the substrate in the specified patterns and coverage rate in accordance with the application specifications for I.S.O.FIX II Adhesive.
6. For best results, position and cut insulation prior to applying I.S.O.FIX II Adhesive. Insulation shall be neatly fitted (within 1/4") to all roof penetrations, projections, and nailers. Stagger insulation boards.
7. **Set the roof insulation in the I.S.O.FIX II Adhesive within three minutes after dispensing it to the substrate.** Additional I.S.O.FIX II Adhesive is required around all roof penetrations and drains.
8. Immediately after setting the board [4' x 4' (1.22 m x 1.22 m) maximum], weight each board using full pails of Bonding Adhesive or other available source of weight that will not damage the roof insulation. This ensures the board makes continuous contact with the adhesive during the critical set-up period (which will vary depending on ambient conditions). Pay particular attention to corners of insulation boards. Loose or unattached corners in insulation boards shall be repaired by the addition of fasteners and insulation plates as required. Depending on the humidity at the time of installation, the weight/set-up period may be extended greatly. In such an instance, continuous weighting must be used.

Storage:

- Store original unopened containers of I.S.O.FIX II Adhesive between 60 °F (16 °C) and 80 °F (27 °C).
- During hot weather, do not expose to sunlight/elevated temperatures until use.
- Shelf life of 15 months from date of manufacture can be expected when stored in original unopened containers between 50 °F (10 °C) and 75 °F (24 °C).
- Shelf life will be shortened if the product is exposed to elevated temperatures.
- For ultimate results, rotate stock to ensure material will not go beyond the shelf life of fifteen months.

Precautions:

- Review applicable Material Safety Data Sheet prior to use.
- Personnel who are sensitive to polyurethane should not work with I.S.O.FIX II Adhesive.
- Use I.S.O.FIX II Adhesive only when ambient temperatures and deck surfaces range between 35 °F (1.7 °C) minimum and 110 °F (43 °C). I.S.O.FIX II Adhesive shall be a minimum of 70 °F (21 °C) during dispensing for best coverage results.
- Wear protective clothing, gloves, and protective eyewear. Do not get I.S.O.FIX II Adhesive on skin.
- A Self-Contained Breathing Apparatus (SCBA) is required in areas of limited ventilation.
- Contents of container under pressure. Do not puncture or incinerate. Relieve all pressure before disposal. Empty containers, after relieved of all pressure, can be disposed of as non-hazardous waste.
- I.S.O.FIX II Adhesive reacts with water. Avoid alkalis, acids, alcohol, and ammonia. Reaction may be violent at elevated temperature.
- Thinning is not allowed.
- After container has been opened, used once and closed, use the remainder of adhesive in that container within one week.
- Do not install over wet, damp, or otherwise contaminated surfaces.
- Do not use I.S.O.FIX II Adhesive for seaming or bonding membranes.
- Contact Firestone prior to bidding jobs with I.S.O.FIX II Adhesive to verify applicability of this adhesive for specific roofs.
- Recommended cleaner of I.S.O.FIX II Adhesive is acetone used before the I.S.O.FIX II Adhesive has set.
- Do not touch or disturb freshly installed I.S.O.FIX II Adhesive.
- Insulation boards shall not exceed 4' x 4' (1.2 m x 1.2 m).

TECHNICAL INFORMATION SHEET

Compliance:

Post Consumer Recycled Content: 0%
 Pre Consumer Recycled Content: 0%
 Manufacturing Location: Wilmington, IL



Packaging:

Packaging Information: I.S.O.FIX II Adhesive is packaged in pressurized metal containers.
Weight: Each container has a gross weight of about 30 lb (14 kg), which includes 23 lb (10 kg) net adhesive weight.
Dispenser Information: Each container is supplied with a nozzle to extrude I.S.O.FIX II Adhesive in a flat bead. A valve on the container controls dispensing of the adhesive (off/on). A hose and wand kit is necessary to dispense I.S.O.FIX II, consisting of one 4 ft (1.22 m) flexible hose and two 14" (355 mm) PVC wands. The kit is sold separately under Firestone Item Number: W56RACINSH.
Coverage: Each 30 lb (14 kg) container contains about 800 linear feet (243.8 m) of 3/4"-1" (19 mm-25 mm) diameter contin bead of I.S.O.FIX II Adhesive.

Beads Dispensed at:		Coverage per Container:	
6" o.c.	152 mm	400 ft ²	37.16 m ²
9" o.c.	228 mm	600 ft ²	55.74 m ²
12" o.c.	304 mm	800 ft ²	74.32 m ²

Physical Properties:

Minimum Performance

Type of Adhesive: Single Component Polyurethane, dispensed in a bead from a pressurized, disposable container
Cure System: Moisture cure
Cure Time: Dependant on ambient relative humidity and temperature
Specific Gravity: 1.24
V.O.C. Content" 0 g/L (0 lb/gal)

TECHNICAL INFORMATION SHEET

Acceptable Substrates:	Notes:
Structural Concrete (New) Structural Concrete (Existing) Steel Gypsum Decks Cementitious Woodfiber Existing Granule Surfaced Modified Bitumen Roofs Plywood and OSB Insulation ISO95+ GL, RESISTA, FiberTop Woodfiber, Dens-Deck Products, Expanded Polystyrene, Extruded Polystyrene, Polyiso, Woodfiber	New poured decks must have a minimum 28 day cure time. Positive adhesion test required. New steel decks may require cleaning to remove processing oils. Positive adhesion test required. Positive adhesion test required. Non-Firestone brand insulations required a positive adhesion test.
NOT ACCEPTABLE: Notes:	Lightweight Concrete, Coal Tar Pitch, Fiberglass insulation, Perlite insulation Existing substrates containing residual asphalt must be cleaned and scraped smooth as possible. The substrate shall be smooth, flat, clean, dry, free of sharp fins, or foreign materials All perimeters, deck seams and all penetrations must be sealed to prevent air infiltration through the deck. Firestone recommends an expanding foam or similar product be used. <i>Dens-Deck is a registered Trademark of Georgia-Pacific.</i>

Please Contact your Firestone Technical Coordinator at 1-800-428-4511 for further information.

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