

TECHNICAL INFORMATION SHEET

I.S.O. Fix™ II Adhesive

Item Description

Pressurized Container
Dispenser Hose/Wand (sold separately)

Item Number

W56RACINSA
W56RACINSH

Product Information

Description:

I.S.O. Fix II Adhesive is a one-component, moisture-cured, polyurethane adhesive applied in beads for adhesive attachment of Firestone-approved roof insulations to acceptable substrates as allowed by Firestone specifications. It may also be used to attach multiple layers of insulation.

I.S.O. Fix II Adhesive is dispensed from a pressurized, portable, disposable container using flexible dispensing hose and dispenser wands which are sold separately. No external power source is required. The maximum slope is 2":12" (16.7 %). Firestone Building Products standard warranties are available up to 30-year warranty period. Please refer to the Firestone website 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 ¾" – 1" (19 mm – 25 mm) beads of I.S.O. Fix II Adhesive on the substrate in the specified patterns and coverage rate, using the appropriate dispenser hose and wand (sold separately, Firestone Part # W56RACINSH).
6. For best results, position and cut insulation prior to applying I.S.O. Fix II Adhesive. Insulation shall be neatly fitted within ¼" (6 mm) to all roof penetrations, projections, and nailers. Stagger insulation boards. Maximum board size is 4' x 4' (1.2 m x 1.2 m).
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 each insulation board, weight each board using full pails of 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 may 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. In such an instance, continuous weighting must be used.
NOTE: The maximum slope is 2":12" (16.7 %).

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.
- A pail which has been opened once and resealed may be used once more with a one-week period.

TECHNICAL INFORMATION SHEET

I.S.O. Fix™ II Adhesive

Shelf Life:

- 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 best results, rotate stock to ensure material will not go beyond the shelf life of fifteen months.

Clean-Up:

Use acetone prior to the I.S.O. Fix II Adhesive setting up.

Precautions:

- Review applicable 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 temperatures.
- 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.
- 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).

LEED® Information:

Post-Consumer Recycled Content: 0%

Post Industrial Recycled Content: 0%

Manufacturing Location: Wilmington, IL

*NOTE: LEED® is a registered trademark of the U.S. Green Building Council.

Typical Properties

Property	Test Method
Base	Single Component Polyurethane Foam
Color	Yellow/Cream Foam
Pressure within Full Canister	220-240 psi
Weight	23 lb chemicals only, 30 lb including tank
Tack Time	3-7 min
V.O.C. Content	0 g/L
Solids by Volume	---

TECHNICAL INFORMATION SHEET

I.S.O. Fix™ II Adhesive

Packaging Data

Property	Test Method	
Pail	30 lb (14 kg) portable pressurized container requiring no external power source for pumping and dispensing.	
Reaction Time	Tack time is 3 – 7 minutes. Set-up time will vary based on ambient conditions.	
Coverage	Each 30 lb (14 kg) container contains approximately 800' (244 m) of a ¾" – 1" (19 mm – 25 mm) diameter continuous bead of I.S.O. Fix II Adhesive.	
	Bead Spacing	Coverage per Container
	6" (152 mm) o.c.	400 ft² (37 m²)
	9" (228 mm) o.c.	600 ft² (56 m²)
	12" (304 mm) o.c.	800 ft² (74 m²)

Acceptable Substrates

Substrate	NOTE
Structural Concrete (New)	New poured decks must have a minimum 28-day cure time.
Structural Concrete (Existing)	Positive adhesion test required.
Steel	New steel decks may require cleaning to remove processing oils.
Gypsum	Positive adhesion test required.
Cementitious Woodfiber	Positive adhesion test required.
Existing Asphalt and Modified Bitumen Roofs (Mineral or Smooth Surfaced)	Positive adhesion test required.
Plywood	5/8" (15.9 mm) thick min.
Coal Tar Pitch	Positive adhesion test required.
ISO 95+™ GL / ISOGARD™ GL, Resista™ / ISOGARD CG, ISOGARD HD, ISOGARD HD Composite, Hail Guard / ISOGARD HG, DensDeck® Products, Expanded Polystyrene, Extruded Polystyrene, Polyiso, Wood fiber	Non-Firestone insulations require a positive adhesion test.
Lightweight Insulating Concrete	Not acceptable
Existing Single Ply roofs	Not acceptable
Fiberglass insulation	Not acceptable
Perlite insulation	Not acceptable

Please contact Firestone Technical Services at 1-800-428-4511 for further information.

This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications or other technical documents, subject to normal roof manufacturing tolerances. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Firestone representative is authorized to vary this disclaimer.