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# I.S.O. TWIN PACK INSULATION ADHESIVE

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**TECHNICAL INFORMATION**

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**Firestone**  
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## I.S.O. Twin Pack Insulation Adhesive

### 1. Description

Firestone I.S.O. Twin Pack Insulation Adhesive is a two-component low-rise polyurethane adhesive designed for anchoring acceptable roof insulation and cover boards to an acceptable substrate, as well as for adhering multiple layers of insulation. It is a solvent-free insulation adhesive that contains no harmful HCFC or CFC.



### 2. Preparation

Surfaces that will receive the Firestone I.S.O. Twin Pack Insulation Adhesive must be clean, smooth, dry, free of loose and foreign materials, oil, grease, and other contaminants. The insulation adhesive can be installed at temperatures as low as -5°C and up to 35°C when the material is stored in room temperature.

### 3. Application

Firestone I.S.O. Twin Pack Insulation Adhesive is dispensed using a twin cartridge dispenser. To mix and dispense the insulation adhesive from kits, remove plugs and apply the static mixer over plug end of kit by hand tightening static mixer to the kit with plug end facing up. Properly mixed I.S.O. Twin Pack will be uniform, with no marbling. Part A and B will be extruded simultaneously through the dispensing unit. It is necessary to pre-dispense a small amount of I.S.O. Twin Pack to ensure a proper mix. To stop dispensing the insulation adhesive, stop the dispensing plunger from advancing and point the mixing end up to stop Part A and Part B from entering static mixer. The stopped position of the kit can only be maintained for a few minutes, as Part A and Part B already in the static mixer will continue to react, set up, and block the static mixer. If the static mixer becomes blocked during the stopped period, replace static mixer in order to mix and dispense the remaining Part A and Part B in the kit. Apply I.S.O. Twin Pack Insulation Adhesive in a bead of 13 mm wide to deck substrate in spacing as specified for the project and immediately set the insulation or cover board (at maximum 1.2 m x 1.2 m) in fresh insulation adhesive before a skim coat develops. The adhesive will rise within minutes after placement. Rise time will depend on the ambient condition. To ensure that the insulation makes continuous contact with the adhesive, immediately weight each freshly installed board until the board is held in place by the adhesive, using full pails of Bonding Adhesive or other available sources of weight that will not damage the roof insulation. Use only when conditions allow, and daily trials indicate successful adhesion.

### 4. Coverage

Coverage rates of each I.S.O. Twin Pack kit, when properly mixed, dispense 40 to 45 lin.m of mixed adhesive in a bead 13 mm wide. This equates to the coverage area of about 50 m<sup>2</sup> per carton when installing in beads spacing of 300 mm (typical spacing). A smaller spacing between beads might be necessary for areas where higher wind loads are to be expected. Coverage rate may also be reduced due to irregularities in substrate.



## 5. Characteristics

Physical	
<ul style="list-style-type: none"><li>• Quick reaction time</li><li>• Excellent resistance to aging</li><li>• Good resistance to heat and cold</li><li>• Outstanding adhesion to approved substrates for maximum performance</li></ul>	
Technical	
• Color: Part A	Amber
• Color: Part B	Off-white
• Composition Part A	Isocyanate pre-polymer
• Composition Part B	Polyol
• Mix Ratio of A:B	1:1 by volume
• Specific Gravity Part A	1.18 ± 0.05
• Specific Gravity Part B	1.02 ± 0.05

## 6. Packaging / Storage / Shelf Life

<b>Packaging</b>	<ul style="list-style-type: none"><li>• It is packaged as a kit consisting of one 750 ml Part A cartridge fastened together with one 750 ml Part B cartridge</li><li>• Each carton contains 4 kits, 6 Static Mixers</li></ul>
<b>Part number</b>	W56RACINTE

**Storage:** Store in original unopened pails at moderate temperatures (15°C - 25°C) in a dry and well-ventilated area. Do not allow the insulation adhesive to freeze. Protect from direct sunlight. If necessary, use an insulated box to maintain the product at moderate temperatures during transport to the job site, before and during application. This will assure the appropriate viscosity, efficiency, and performance of the insulation adhesive. Store cartons with kits on their side. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Shelf life:** 12 months can be expected if stored in above-mentioned conditions. Shelf life will be reduced if exposed to higher temperatures. Shelf life information is only a recommendation and not a fact of life. The real expiration date highly depends on the history of storage and handling of the accessories.

**Disposal:** Do not burn empty kit containers. Dispose in accordance with local regulations.

## 7. Precautions

Refer to Safety Data Sheet. Personnel who are sensitive/allergic to isocyanate or polyurethane should not come in direct contact with I.S.O. Twin Pack Insulation Adhesive. Use caution when removing plugs from kits. For professional use only. Avoid contact with skin and eyes. Avoid breathing vapors. Wear protective gloves. Keep out of reach of children.

This document replaces any other document published previously. This sheet is meant to highlight Firestone product information based on the latest knowledge and experience and is subject to change without notice (check the Firestone website for the latest document version). Above mentioned values are based on tested samples and may vary within applicable tolerances. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications. No Firestone representative is authorized to vary this disclaimer.

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