

Product Data Sheet



Twin Jet Y

Item Description	Item Number
Part A and kit (Dispensing Accessories)	W59RACIAHFOY1GF
Part B	W59RACIAHFOY2GF
Twin Jet Y Hose and Gun Set (1 set per carton)	W59RACIAPRKYGF
Twin Jet Y Mixing Tips (8 pieces per package)	W59RACIAPRTYGF
Twin Jet Y Extension Tubes (8 pieces per package)	W59RACIAPREYGF
Twin Jet Y Mixing Tips (25 pieces per package)	W59RACIAPRTFYGF
<i>*NOTE: Each item bearing an item number is sold separately.</i>	

Description

Twin Jet Y is a two-component, Low VOC, low-rise polyurethane adhesive applied in bead or spatter pattern for the attachment of GenFlex approved roof insulations and for the attachment of GenFlex EZ Fleece Backed TPO Membrane to acceptable horizontal substrates, per GenFlex specifications. Twin Jet Y is packaged in portable pressurized canisters, allowing extrusion of Part A and Part B to the gun and mix tip assembly. Use Twin Jet Y when ambient and substrate temperatures range from 30 °F (-1.11 °C) to 100 °F (38 °C).

Twin Jet Y has been updated with an HFO propellant that's compliant with all U.S. State and Canadian Provincial regulations. HFO propellants are categorized as having zero ozone depletion potential (ODP) and low global warming potential (GWP), providing a more sustainable solution compared to alternatives CFC, HCFC, and HFC propellants.

Product Preparation

Carefully review all product instructions on this Twin Jet Y Technical Information Sheet (PDS 836B), including product packaging, and application instructions prior to application. Substrates to receive Twin Jet Y must be clean, smooth, dry, free of sharp edges, loose and foreign materials, oil, grease, and other contaminants, and should be properly sloped toward roof drainage devices. Use Twin Jet Y only when substrate and ambient temperatures are at least 30 °F (-1.11 °C) and rising. Do not apply when substrate and ambient temperatures exceed 100 °F (38 °C). See below for proper storage and handling instructions. Temperatures in each canister must be maintained between 70 °F (21 °C) and 85 °F (29 °C). Twin Jet Y should be stored in a temperature-controlled environment and brought to the application area just prior to application.

Set-Up Procedure

1. Remove the hose and gun assembly, 9/16" wrench, petroleum jelly package and mix tips from Part A carton.
2. Keep Part A and Part B Canisters in their respective cartons.
3. Shake Part A and Part B Canisters back and forth for 1 to 2 minutes to achieve the proper mix. Remove the rubber canister valve covers from both Part A and Part B Canisters and insert hoses through the front side of each carton.
4. Attach swivel fitting on the red striped hose--finger tight--to the valve outlet on top of the Part A Canister.
5. Attach swivel fitting on the black striped hose--finger tight--to the valve outlet of the Part B Canister.
6. Tighten both fittings with the supplied 9/16" (14 mm) wrench by turning an additional one-sixth turn until firmly attached. DO NOT OVER-TIGHTEN!

7. Open the valves completely by slowly turning the valves counterclockwise. Check for leaks in hose and Canister connection and tighten if necessary. Close the lid of each carton to protect Canister and valve from the elements.
8. When operating the gun for the first time, or when starting a new kit, trigger the gun at one-half to three-quarters of its capacity until the desired output is achieved. This precise metering capability is a significant advantage of this gun, providing the user with full control over the flow rate to ensure optimal performance for the specific application.
9. To ensure optimal performance, always purge the gun hose applicator of air and chemicals by dispensing them into a waste container for a few seconds before attaching the ColorWise®* snap-tip mixing nozzle.

Application of Colorwise Snap-Tip Temperature Warning Nozzles

1. Before attaching mix nozzle, use the provided petroleum jelly on the face of the gun to help keep the gun face clean from cured adhesive or contamination that could block the chemical ports.
2. Insert bottom tab of mix nozzle into bottom slot of the gun face.
3. Attach the top latch by pushing towards the back of unit, until an audible SNAP is heard.
4. After attaching mix nozzle, dispense a Test Shot into a waste container of equal parts A and B chemicals. Double check the dispensed adhesive is curing.
5. Verify that equal parts A and B are being dispensed
6. Unit is ready for use.
7. The ColorWise mixing nozzle changes to BLUE when exposed to cold conditions, under 60 °F (15.6 °C). Should this happen, stop dispensing and return canisters to a temperature-controlled environment to warm the adhesive. It turns CLEAR when the chemical is dispensed within the optimal temperature range of 70-85 °F (21-29 °C).
8. To remove the used mix nozzle, push the top latch up and forward to unsnap.
9. Replace the ColorWise snap-tip mix nozzle with a new one whenever dispensing stops, for 30 seconds or longer. Ensure the gun ports remain free of adhesive buildup by cleaning them with a cloth.
10. The snap-tip ColorWise mix nozzle will dispense mixed adhesive in a Fan-Spray or Spatter pattern. Snap the tip off completely for Bead/Ribbon application.

* ColorWise® is a registered trademark of ICP Building Solutions Group.

Method of Application

For Insulation Attachment

1. Install only as much roof insulation as can be covered and made watertight during the workday.
2. The maximum size Insulation, Cover Board to be adhered with Twin Jet Y is 4' x 4' (1.2 m x 1.2 m)
3. Twin Jet Y can adhere Insulation Boards and or Cover Boards in either a 4" (101.6 mm), 6" (152.4 mm), or 12" (304.8 mm) bead spacing or in a spatter application.
4. For safety, always engage the gun trigger Safety and close all supply valves when not in use.
5. For bead dispensing, snap the tip off of the mix nozzle. To dispense the adhesive, position the mix nozzle approximately 20" (508 mm) from the substrate. Depress the trigger and move the applicator at a controlled speed to produce a serpentine ribbon of adhesive. The Twin Jet Y should be applied in a serpentine pattern with ribbons at a maximum of no more than 12" (304.8 mm) on center. Perimeter and corner areas may require enhanced bead spacing per code.
6. For Spatter pattern, the adhesive is dispensed onto the insulation or cover board substrate in a "Spatter Pattern," applying in an even, sweeping motion from side to side. This pattern should result in a thick, textured coating, with the peaks of the adhesive reaching a height of ¼" (6.35 mm) to ½" (12.7 mm).
7. Once proper amount of time for adhesive to gel/tack has been achieved, approximately 1-4 minutes based on the current ambient conditions, insulation and cover boards should be placed on the adhesive and walked into place to secure their position. Avoid foot traffic on the boards for 15-20 minutes to ensure they adhere properly. Ballasting of boards is not required but recommended.
8. Boards affected by cupping, warping, crowning, or substrate surface irregularities should be weighed down until the adhesive has fully set to secure the boards in place.
9. If dispensing is interrupted for breaks, lunch, or overnight, ensure canister valves are turned off, and attach the

used mix nozzle to the front of the gun. Upon resuming, install a new mix nozzle, open the canister valves, and conduct the test shot procedure.

10. Carefully monitor the substrate area where the adhesive is applied before mating the insulation, particularly when temperatures exceed 90 °F (32 °C). **Ensure Twin Jet Y has not skinned over before mating the insulation.**

For Attachment of GenFlex EZ Fleece Backed TPO Membrane

1. Unroll the GenFlex EZ Fleece Backed TPO membrane and allow it to relax in its final intended position for a minimum of 30 minutes (longer in colder temperatures or overcast conditions).
2. Twin Jet Y can adhere GenFlex EZ Fleece Backed TPO membranes to approved substrates in bead or spatter applications.
 - a. For bead application, snap the tip off of the mix nozzle. Position the applicator mix nozzle approximately 20" (508 mm) from the surface and depress the trigger to dispense the adhesive. Move the applicator at a controlled speed to produce a serpentine ribbon of ¾" (19.05 mm) to 1" (25.4 mm) adhesive. Twin Jet Y should be applied in a serpentine pattern at a maximum width of 12" o.c. (304.8 mm). Perimeters and corners may require enhanced bead spacing per code.
 - b. For spatter application, dispense Twin Jet Y in an even, sweeping motion. The application should result in a thick, textured coating, with adhesive peaks reaching a height of ¼" (6.35 mm) to ½" (12.7 mm). At a rate of 60-70% coverage over the horizontal substrate and 75-85% at base tie-in locations, up to 3000 ft² (278.71 m²) per canister set.
3. Keep seam areas free of Twin Jet Y. If contamination occurs, promptly clean the area(s) while the adhesive is still wet with GenFlex Cleaner, All Purpose LVOC Cleaner (for GenFlex EZ Fleece Backed TPO Membrane).
4. The open time to mate the membrane to dispensed Twin Jet Y ranges from 1-10 minutes from the start of dispensing. Expect open times to decrease as substrate and ambient temperatures increase.
5. **Ensure Twin Jet Y has not skinned over before mating the membrane.** Carefully monitor the application area, particularly when temperatures exceed 90 °F (32 °C).

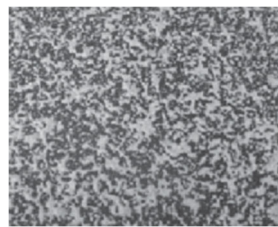
NOTE: Membranes can be applied once the adhesive has established a strong bond with the substrate. The contractor should check the installed insulation for secure adhesion and reapply adhesive to any boards or corners that are not properly attached.



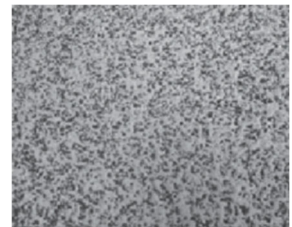
**Spatter Pattern
Application Example**



Too Light Spray Pattern



Suggested Spray Pattern



Too Heavy Spray Pattern

6. Immediately after setting the membrane in dispensed Twin Jet Y, use a stiff bristle broom to initiate contact, then thoroughly roll the membrane using a 75 lb (34 kg) to 150 lb (68 kg) roller. It is important that the freshly installed membrane and substrate remain in contact with Twin Jet Y adhesive until the adhesive sets to ensure proper adhesion.

Coverage Rate*

- Bead dispensed at 12" (304.8 mm) o.c. – up to 3500 ft² (325 m²) per canister set
 - Bead dispensed at 6" (152.4 mm) o.c. – up to 1750 ft² (162.5 m²) per canister set
 - Bead dispensed at 4" (101.6 mm) o.c. – up to 1167 ft² (108.3 m²) per canister set
 - Spatter dispensed at 0.283 gal/sq minimum – up to 3,000 ft² (278.71 m²) per canister set
- *Coverage rate can vary depending on substrate and ambient conditions*

Kit Storage and Re-Use

Storage

1. Ensure both canister valves are securely closed before storage and engage the gun trigger's Safety.
2. Keep kits/canisters out of direct sunlight.
3. Store partially depleted and used canisters between 70–85 °F (21–29 °C) just as you would unopened product.
4. Keep the used mix nozzle attached to the gun during storage.
5. To clean mix nozzles, dissolve the mixed adhesive while it remains wet with a solvent such as acetone. Do not allow the adhesive to harden. Remove residue from the gun face using a clean, soft cloth and apply petroleum jelly to the face of the unit to prevent contamination.
6. Keep hoses attached to canisters and under pressure. Do not use air, water, or solvent to flush or clean the hoses, as this may affect the adhesive's effectiveness.

Steps to reuse the gun after storage

1. Remove the used mix nozzle.
2. Inspect the face of the gun to ensure the outlet ports are clear and that the surface is free from dirt, chemicals, or other debris. If needed, use a soft cloth to remove any cured adhesive or chemicals.
3. Shake the kit or canisters for 1-2 minutes to ensure proper mixing. Make sure the Twin Jet Y adhesive is at a temperature between 70-85 °F (21-29 °C).
4. Open both canister valves completely.
5. Dispense Twin Jet Y without mix nozzle into waste container to verify that both chemicals are flowing in equal streams.
6. To extend storage life, it is advised to dispense a small amount of adhesive from the unit at least once every three days to maintain optimal chemical flow through the hoses.
7. The gun is disposable and not intended for prolonged storage or repeated use.
8. Use the contents within 30 days of the initial use.

Very Important: In hot conditions, especially in summer, the pressure in the hoses can build up due to exposure to sunlight. Purging the hoses for a few seconds before dispensing will relieve excess pressure and allow the chemicals to flow in proper proportions.

Disposal

Procedure for handling empty or partially used disposable canisters (not returnable)

1. **Do Not Incinerate Canisters.**
2. Empty the canisters by dispensing the adhesive into a waste container, such as a cardboard box or a plastic bag. Depressurize the used canisters using the gun with a new mix nozzle attached. Continue dispensing the adhesive until both canisters no longer release any chemicals. Treat the canister that still contains chemicals as hazardous material.
3. Remove the mix nozzle and continue depressurizing the remaining chemical(s) into a waste container lined with a plastic bag and containing an adequate industrial liquid-absorbing medium at the bottom. Dispense until the pressure drops to a minimum or only large bubbles are visible in the hose.
4. Fully close the canister valves, then operate the gun again to empty and depressurize the hoses. Carefully remove the hoses from the canisters using the 9/16" (14.3 mm) wrench, being mindful of any residual chemical or pressure in the hoses.
5. Invert the canister and, while pointing it away from your face, slowly open it over the waste container to capture any residual spray.
6. Return the canister to an upright position and shake it. Ensure there is no liquid sloshing inside. Leave the valves open - **do not close them. Do Not Puncture the canister.**
7. Users are responsible for disposing of empty canisters, unused material, and residues in accordance with all applicable federal, state, international, and local regulations regarding the treatment, storage, and disposal of hazardous and nonhazardous waste. Please consult your local waste disposal service for further guidance

Precautions

- Refer to Safety Data Sheets (SDS) for additional safety information.
- Personnel who are sensitive/allergic to isocyanate or polyurethane should not work with Twin Jet Y.
- At the start and throughout each workday, create test samples with Twin Jet Y to verify proper mixing, set- up, and overall adhesion of insulation to substrate before proceeding.
- Avoid contact with eyes. Wear safety glasses with side shields.
- Avoid breathing vapors. A Self-Contained Breathing Apparatus or Respirator should be used during limited ventilation periods.
- Avoid contact with skin. Wear gloves when dispensing. Wash hands thoroughly after handling.
- Close canister valves when not in use.
- Do not sit or stand on cartons or canisters.
- Do not expose Twin Jet Y to open flames or temperatures above 100 °F (38 °C).
- Canisters and contents must be between 70 °F (21 °C) – 85 °F (29.4 °C) for use.
- Replace ColorWise nozzle after 30 seconds of non-use or if adhesive does not flow freely.
- Keep canisters in upright position while dispensing adhesive.
- Do not pull or lift canisters with the hoses.
- Do not dispense adhesive in areas of spark, open flame, or other ignition sources. Do not smoke in areas where Twin Jet Y adhesive is being applied.
- When using a full canister set, pull the trigger gradually until you reach the desired pressure. Pulling the trigger too aggressively could result in safety risk.
- To prevent cross-contamination, do not transfer used hoses to a new canister set.

Personal Protective Equipment (PPE)

Use of appropriate PPE, including protective eyewear with side shields or goggles, nitrile gloves, and clothing designed to prevent dermal exposure when handling, dispensing, and disposing of Twin Jet Y. Dispense Twin Jet Y in a well-ventilated environment with recommended certified respiratory protection. The applicator is responsible for conducting a PPE evaluation and/or exposure assessment to determine the need for respiratory protection.

Shelf Life

18 months if stored in accordance with the above recommendations.

LEED® Information

Post-Consumer Recycled Content: 0%

Post Industrial Recycled Content: 0%

Manufacturing Location: Tomball, Texas

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



Typical Properties

Property	Test Method	Typical Performance
Base	---	Part A: Diisocyanate; Part B: Polyol
Color	---	Part A and Part B mixed: Tan
Viscosity	ASTM D2196	Part A: 150 – 250 cPs @ 77 °F (25 °C) Part B: 990 – 1190 cPs @ 77 °F (25 °C)
Density	ASTM D1622	2.8 lb/ft ³ (44.85 kg/m ³)

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Typical Properties (Continued)		
Property	Test Method	Typical Performance
Specific Gravity	---	Part A: 1.22 – 1.26, Part B: 1.24 – 1.28
Weight of full canister	---	Part A: 44.5 lb (20.2 kg); Part B: 44.1lb (20.0 kg)
Max Ratio (Part A: Part B)	---	1:1 by volume
V.O.C. Content	ASTM D2369	<98 grams/liter (0.82 lb/gal)

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 Wood Fiber Plank	Positive adhesion test required.
Existing Asphalt and Modified Bitumen Roofs (Mineral or Smooth Surfaced)	Positive adhesion test required.
V-Force™ Vapor Barrier Membrane	
V-Force™ FR Vapor Barrier Membrane	
Lightweight Concrete	Acceptable Lightweight concrete substrates include cellular or air-entrained concrete. Lightweight concrete substrates with aggregate (such as perlite or vermiculite) are not acceptable.
Plywood	½" (12.7 mm) thick minimum
Coal Tar Pitch	Positive adhesion test required.
GenFlex GL ISO / GenFlex ISO GenFlex CG ISO / Coated Glass Facer Polyiso GenFlex HD ISO / GenFlex ½" HD ISO GenFlex HD Composite ISO GenFlex NB ISO / Nailbase Composite Board Structodek® wood fiberboard, Dens-Deck Products, Securock Products, DEXcell Products	GenFlex brand insulations and cover boards acceptable
Expanded Polystyrene, Extruded Polystyrene, Polyisocyanurate, Wood Fiber	Non-GenFlex brand insulation, positive adhesion test required. Contact Regional Technical Coordinator for review.
Existing Single Ply Roofs (TPO/EPDM)	Positive adhesion test required
Fiberglass Insulation	Not Acceptable
Perlite Insulation	Not Acceptable
Smooth BUR	Positive adhesion test required.
Gravel BUR	Positive adhesion test required. Existing substrates containing residual asphalt must be cleaned and scraped as smoothly as possible.
Granular Modified-Bitumen	Positive adhesion test required. Existing granule surface to be broomed to remove all loose granules.
Smooth Modified Bitumen	Positive adhesion test required.
Mineral Cap Sheet	Positive adhesion test required.
NOTE: 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. GenFlex recommends an expanding foam or similar product be used.	

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

This sheet is meant to highlight GenFlex products and specifications and is subject to change without notice. Amrize takes responsibility for furnishing quality materials that meet published GenFlex product specifications or other technical documents, subject to normal manufacturing tolerances. Neither Amrize nor its representatives practice architecture. Amrize offers no opinion on and expressly refuses any responsibility for the soundness of any structure. Amrize 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 Amrize representative is authorized to vary this disclaimer.

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