

# Technical Information Sheet



## JET BOND PVC SPRAY ADHESIVE

Item Description	Item Number
Jet Bond PVC Spray Adhesive Canister	W56RACJB PVC
<u>Application Accessories (sold separately)</u>	
Jet Bond PVC Cleaner (Refer to TIS 2125)	W56RACJBCLN
Canister Spray Gun with 2 ft Extension	W56RACSPRAY
Replacement Spray Tips (10 pc)	W56RACSPTIP
Canister Hose – 12 ft	W56RACHOSE12
Canister Hose – 18 ft	W56RACHOSE18

## DESCRIPTION

Jet Bond PVC Spray Adhesive is an LVOC bonding adhesive packaged in portable, pressurized canisters and formulated for two-sided spray application directly from the canister. Jet Bond PVC Spray Adhesive provides excellent adhesion of Elevate PVC and Elevate MAX PVC roofing membranes and flashings to approved substrates in both horizontal and vertical applications. **Elevate PVC Jet Bond Spray Adhesive is not intended for use with Elevate PVC XR, PVC KEE, PVC KEE XR and MAX PVC XR membrane.**

## PRODUCT PREPARATION (GENERAL)

1. Dispense Elevate Jet Bond Spray Adhesive in a well-ventilated area using appropriate personal protective equipment (PPE). The use of 3rd party dispensing systems is not approved.
2. The surfaces to receive Jet Bond Adhesive must be clean, smooth, dry, free of sharp edges, loose and foreign materials, oil, grease, and other contaminants.
3. For applications taking place in ambient temperatures below 65 °F (18.3 °C), store cylinders in heated place and move to project area during application. Cylinders must be kept warm on jobsite. Dispense product from cylinder while it is still warm. When the product in cylinder becomes too cold, the spray pattern will become inconsistent and begin to spit rather than spray. If this occurs, swap the cold cylinder for warmer one and return cold cylinder to heated area. When changing cylinder, close the valve on the cylinder and depressurize hose. Remove the hose and attach it to the new cylinder. Open valve and do a test spray. Adhesive can be applied at ambient temperature of 35 °F (1.7 °C) and rising, cylinders **must** be kept warm. Propellant in cylinders must be kept above 65 °F (18.3 °C) for adhesive to spray properly.
4. **Always keep cylinders in an upright position.** Attempting to dispense adhesive when tank is not vertical will cause only propellant to be released. Loss of propellant will significantly reduce spray pattern, coverage rates and overall yield of canister.
5. Only use approved gun, wand, and hose. Avoid application equipment containing aluminum or copper.
6. Do not apply Jet Bond in windy conditions exceeding 15 mph. A wind break may be necessary to maintain fan spray pattern in winds less than 15 mph.
7. Apply adhesive at about the same time to both the membrane and the substrate to allow approximately the same flash-off time.

## METHOD OF APPLICATION

1. Agitate Jet Bond canister for 30 seconds prior to use. Periodically shake the canister during application to maintain canister pressure and produce optimal fan spray pattern.
2. Connect the hose to the gun and tighten fitting securely with wrench. Connect the other end of the hose to the Jet Bond PVC Adhesive cylinder outlet and tighten fitting securely with wrench. Use caution not to cross-thread the connections or overtighten any connection points.
3. Slowly turn the adhesive cylinder valve on (counterclockwise rotation) and check for leaks at each attachment of the canister, gun and hose assembly and tighten accordingly to stop all leaks immediately. It is recommended to only open the valve halfway at first.

**NOTE:** Once the canister is turned ON with the gun and hose attached, it is best practice to leave the canister in the ON position until fully evacuated and ready to connect to a new canister. DO NOT turn the cylinder off with the gun and hose attached for any duration of time as the adhesive will dry and clog in the hose. Leaving the canister ON will ensure the hose is kept under pressure and thus the adhesive will dry and clog in the hose. Leaving the canister on will ensure the hose is kept under pressure and thus the adhesive will remain in a fluid state. When not using the canister system, turn off the gun control wheel (picture below) to the off position to prevent accidental spray. If the canister must be turned OFF, the hose/gun assembly should be fully evacuated and cleaned accordingly prior to storing.

4. With the canister in vertical position, spray apply the adhesive with a 50% overlap of the previous pattern holding the gun approximately 12" (304.8 mm) from and perpendicular to the substrate. Select the width of the desired pattern using the control wheel located behind the gun trigger. The more "open" the wheel, the wider the pattern, the more "closed" the wheel the narrower.
5. Spray back of membrane and substrate with a continuous and uniform pattern (avoid globs or puddles). Porous substrates may require an additional pass of adhesive to provide enough deposition on the surface or "layup" to contact bond with the membrane. The best installation practice is to orient membrane spray pattern perpendicular to (90 degrees) substrate spray patterns. Do not apply adhesive to seam areas intended to be hot air welded.
6. Allow both coated surfaces to dry (solvent flashes off) until it does not transfer to finger or knuckle when touched. After drying, adhesive will NOT be tacky to the touch but will contact bond together. In most cases, the adhesive will dry within 3-5 minutes. Maximum open time after adhesive has dried is 30 minutes. As a rule, contact bond the substrates together as quickly as possible after drying. The longer the product is "open" the more pressure is required to achieve desired bonds. If left open too long, beyond 30 minutes, simply reapply a new light coat of adhesive to one of the surfaces and follow steps 5 and 6.
7. When the adhesive is dry, roll the membrane into the substrate while avoiding wrinkles. Smooth with hand or lightly broom entire surface to ensure there are not wrinkles or air pockets, then apply as much uniform pressure as possible across the entirety of the bonded surface with a clean J-Roller (for vertical surfaces/flashings) or 100 lb. (45.4 kg) linoleum roller (horizontal surfaces/flat roof deck) to achieve maximum contact.

**NOTE:** After surfaces have been bonded and rolled, check the adhesive by peeling back the edge of membrane. Adhesive should not release from either surface. An acceptable initial bond will exhibit legging/stringing of adhesive from both surfaces (see picture below).

Adhesive dry time (or flash-off time) is affected by temperature, humidity, clouds/sun, wind, and shade. Understanding how relative humidity and dew point temperatures affect the ability of adhesives to properly dry (flash-off) is very important. The dew point is the temperature at which moisture in the air (water vapor) begins to condense into liquid water on a surface. Certain combinations of temperature and humidity may cause condensation (blushing) on the surface of the adhesives. Generally, when the ambient outside air temperature is  $\leq 10^{\circ}\text{F}$  ( $-12.2^{\circ}\text{C}$ ) of the dew point temperature, condensation may occur on the surface of the applied adhesive. If this occurs, do not mate surfaces, and wait until ambient air conditions no longer cause condensation. Condensation of the surface of drying adhesives usually occurs in the

extremes of temperature conditions (i.e., very hot, humid conditions just prior to expected rain or shaded/cloudy cold conditions).

8. Transferring hose/gun assembly to new canister: When the canister is empty of adhesive, close the valve on the cylinder and depressurize hose by opening gun. Remove the hose from the old cylinder and attach to new cylinder. See Disposal section for handling of empty cylinders.
9. Use Jet Bond PVC Cleaner, Acetone or MEK to clean all spray equipment parts.

## **STORAGE**

- Store Cylinders in protected, conditioned space with temperature maintained above 60 °F (15.6 °C) but no higher than 90 °F (32.2 °C).  
Contents are flammable.  
Store in accordance with local, state, and federal regulations.  
Keep cylinder valve open to maintain pressure in the hose and spray gun.  
Periodically spray in a safe manner to help prevent possible clogging.  
Keep spray gun trigger locked when not in use.  
Flush gun and hose with Jet Bond PVC Cleaner for long-term storage beyond 30 days.
- If frozen, return to room temperature and agitate before use. Additional agitation may be required.
- Do not store in direct sunlight.
- Diminished performance may occur below 65 °F (18.3 °C). If so, warm canister to room temperature.
- Remove from storing on concrete floor in cold temperatures.
- Bring the canister to 70 °F (21 °C) before application. Do not allow the canister temperature to exceed 110 °F (43 °C).
- For the best results, use partially dispensed adhesive canisters within 60 days.

## **COVERAGE RATE**

Up to 750 sq. ft. of bonded surface (two sided)

- Application rate may vary depending on spray pattern, surface roughness, porosity, and strength of bond desired 50% overlap minimum

## **SHELF LIFE**

Shelf life of one (1) year from manufacture date can be expected when stored in unopened original container at temperatures between 60 °F (16 °C) and 80 °F (27 °C).

## **PRECAUTIONS**

- Review applicable Safety Data Sheets (SDS) for complete safety information prior to use.
- Adhesive is flammable liquid propellant and vapor. Keep away from open flame.
- Do not dispense adhesive in areas of spark, open flame, or other ignition sources. Do not smoke in areas where Jet Bond PVC Spray Adhesive is being applied.
- Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at locations distant from the material handling point and flashback.
- Use adequate ventilation. Avoid breathing of spray mist or vapors. Spray in well ventilated areas.
- Harmful or fatal if swallowed. May cause eye irritation. Avoid contact with eyes. Wear safety glasses with side shields or safety goggles. Avoid contact with skin. Wear gloves when dispensing. Wash hands thoroughly after handling.
- Keep out of reach of children.
- Cylinders are not refillable. Dispose of the cylinders according to local codes and laws.
- Read safety precautions and warnings on cylinder label.
- Do not aim spray gun at people or animals at any time.
- For industrial professional use only.
- Close canister valves when not in use.

- Do not sit or stand on cartons or canisters.
- During product disposal, wear appropriate PPE and maintain proper ventilation.
- Empty containers remain hazardous until all flammable vapors, which may explode upon ignition, are gone from residue and container.
- Observe all labeled hazard precautions.
- Do not cut, puncture, or weld while hazard exists.
- Do not reuse empty containers.
- Do not burn empty canisters.
- Product not intended for use with Elevate TPO, EPDM, PVC KEE, PVC KEE XR, PVC XR, MAX PVC XR or Asphaltic Membranes.

## CLEAN UP

- Use Elevate Jet Bond PVC Cleaner to flush hoses and clean spray gun.
- Acetone or MEK can be used to clean tools and surfaces.
- If the spray gun valve becomes stuck, attach hose and spray gun to cylinder of Jet Bond PVC Cleaner and trigger spray gun repeatedly until operation is smooth.
- If the spray gun tip is clogged, a small-gauge wire or torch-out tool is helpful after soaking the brass tip/fitting in Acetone or MEK.

## DISPOSAL

Once the canister is fully exhausted of adhesive, follow these instructions for proper disposal:

1. There may be some residual pressurized propellant left in the canister after the adhesive runs out. This is normal provided all the adhesive has been exhausted.
2. Once there is no adhesive remaining (spraying through the gun and hose with the gun dial fully open), close canister valve, then open gun to fully evacuate any remaining pressure in the hose/gun.
3. Disconnect the hose from canister and immediately transfer this used hose to a new adhesive canister to continue adhesive application. If adhesive application is complete, then use a canister of Jet Bond PVC Cleaner to remove residual adhesive. **If the line is not clean residual adhesive in the line and gun may dry out and make the gun/hose unusable for further use.**
4. With the gun and hose now removed, keeping the canister in a vertical position and valve still closed, point the valve in a safe direction (preferably into a bucket or catch pan) and slowly open the canister valve to full position to exhaust any remaining propellant and realize some residual adhesive may spit out of the canister at this point.
5. Mark the canister "EMPTY", keep the valve open and allow it to sit with the valve fully open for at least one hour to fully exhaust all pressure.
6. Once the canister has emptied fully you can shake the canister with no material or propellant exhausting, it is now ok to "open canister vessel" for disposal.
7. To "open the canister vessel", puncture the rupture disc on the side of empty, depressurized canister using a brass punch and hammer.
  - Recycle or dispose of "open canister vessel" in accordance with all applicable local, state, and federal regulations.

## LEED® INFORMATION

Post-Consumer Recycled Content: 0%

Post Industrial Recycled Content: 0%

Manufacturing Location: Lynchburg, VA

Qualifies for LEED-NC & CI EQ Credit 4.4: Laminating adhesives shall contain no urea formaldehyde resins.

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



## PRODUCT PACKAGING

Product	Packaged Weight (Gross)	Product Weight (Net)
Jet Bond PVC Spray Adhesive Canister	39.0 .bs. (17.7 kg) per canister	29 lbs. (13.2 kg)
Jet Bond PVC Cleaner	13.5 lbs. (6.1 kg) per canister	9.0 lbs. (4.1 kg)
Spray Gun + 2 ft. Extension	2.5 lbs. (1.1 kg)	1.5 lbs. (0.7 kg)
Replacement Spray Tips (10 pc)	3.3 lbs. (1.5 kg)	2.3 lbs. (1.0 kg)
12 ft. Hose	2.2 lbs. (1.0 kg)	1.5 lbs. (0.7 kg)
18 ft. Hose	2.6 lbs. (1.2 kg)	1.9 lbs. (0.9 kg)

## TYPICAL PROPERTIES

Properties	Test Method	Typical Performance
Color	---	Natural
Consistency	---	Aerosol Spray
Weight	---	Approx. 39 lbs (17.7 kg) per canister
Spray Pattern	---	Variable Web
Odor/Solvents	---	Acetone
Base	---	Synthetic Rubber and Resin
Coverage Rate*	---	Estimated 500 – 700 ft <sup>2</sup> (46.5 – 65 m <sup>2</sup> ) in 29 pound canister
Dry Time	---	3 – 5 Minutes**
Open Time	---	30 Minutes
Flammability	---	Flammable when wet, Non-Flammable when dry
Shelf Life	---	12 months (Unopened Containers)
V.O.C. Content	EPA Method 24	<200 grams/liter
Viscosity	ASTM D1084	350-550 cPs
Density	---	7.08 (+/- .2) lb/gal
Flash Point	---	-42 °F (-41.1 °C)
Coverage Rate	---	50% overlap minimum

\* Approximate coverage, rough or porous surfaces will require more adhesive.

\*\* Or longer depending on climate conditions.

## PRODUCT PHOTO

Spray Gun	Replacement Spray Tips	Hose
		

APPROVED SUBSTRATES	
Substrate	Notes
Structural Concrete (New)	New poured decks must have a minimum 28-day cure time. Porous substrates may require an additional adhesive.
Structural Concrete (Existing)	Positive adhesion test required. Porous substrates may require an additional adhesive.
Plywood	
OSB	
ISOGARD GL / ISOGARD CG	
ISOGARD GL	
ISOGARD HG Composite	
ISOGARD HD Composite	
DensDeck® Prime Roof Board	
DensDeck Prime StormX Roof Board	
Securock® Gypsum-Fiber Board	
DEXcell® FA Glass Mat Roof Board	
DEXcell Cement Roof Board	
DEXcell FA VSH™ Glass Mat Roof Board	
StructoDek® Roof Board	Positive adhesion test required.

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

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