

Get the Royal Edge Advantage with RPI



## **RPI Millennium Spray-Bond Adhesive**

### **ROYAL EDGE ADHESIVES**

#### **DESCRIPTION**

RPI Millennium Sprayable Bonding Adhesive is a specially formulated bonding adhesive used to adhere Royal Edge EPDM, Re-Flex EPDM and Re-Flex TPO standard and Fleece Back membranes to plywood, metal, brick or block masonry, Polyiso, Polyiso HD insulation boards, recover, barrier boards, oriented strand boards, and other acceptable substrates.

### **THE ROYAL EDGE ADVANTAGE**

- Compatible with all RPI EPDM and TPO membranes.
- Easily applied using RPI Millennium Spray-Bond applicator gun.
- Provides excellent adhesion at application temperatures down to 25°F.
- No more roller covers and adhesive pails to deal with and dispose.
- Single canister covers 3 times the finished area of one 5-gallon pail.
- A Fast drying adhesive with excellent adhesion performance.
- Extended open time allow for more installation flexibility.

#### **BASIC APPLICATION**

RPI Millennium Adhesive is applied using a spray gun with a single hose which is attached to the adhesive canister. The adhesive is applied as a fully adhered application which requires both surfaces (the membrane and the substrate) to be sprayed with the adhesive. After the adhesive has flashed-off (dried), the coated surfaces can be mated together and broomed into place or rolled with a flooring roller. Fleece Back applications must use a minimum 150lb. roller. RPI Millennium Adhesive may also be used in vertical applications (curbs, parapet walls).

#### **APPROVED SUBSTRATES**

Acceptable substrates include: Plywood, OSB, concrete block and brick, metal, Polyiso insulation, and Polyiso HD cover board, DensDeck Prime and Securock coverboards.

NOTE: All substrate surfaces must be clean, dry, and free of dust and debris.

#### **REQUIRED EQUIPMENT**

RPI Millennium spray gun with sprayer tip and hose with or without extension wand. Purchased separately.  
Hose Lengths: 6ft., 12ft. and 18ft.



#### **COVERAGE RATES**

Coverage will vary depending upon the type of substrate and the substrate surface. Substrates with rough surfaces may require more adhesive. Other substrates with smooth, surfaces may result in a higher coverage rate.

Application on vertical surfaces over asphalt based coatings or with residual asphalt remaining should have an initial coat of adhesive applied to the substrate. The initial coat of adhesive seals the asphalt and improves adhesion. After the initial coating has properly flashed-off, apply a second coating to the substrate.

##### **Horizontal/Field**

Coverage rate is 1000 sq.ft. per canister for both substrate (barrier board/insulation) and reinforced and non-reinforced Royal Edge EPDM, Re-Flex EPDM, and Re-Flex TPO membrane. Coverage rates may vary with RPI Fleece Back Membranes.

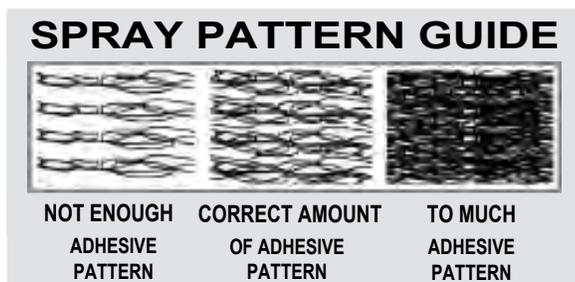
##### **Vertical Walls/Curbs**

Coverage rate is 750 sq.ft. per canister for both wall substrate and membrane. Wall/Curb coverage is decreased due to increased overlap of adhesive which is required for vertical applications.

## APPLICATION PROCEDURES

### SHAKE THE ADHESIVE CANISTER FOR A MINIMUM OF 30 SECONDS BEFORE USE.

1. Attach the spray gun to the hose and then attach the hose to the adhesive canister. Open the valve on the canister and check the hose, gun, and canister fittings for leaks. **IMPORTANT:** Once the valve is turned on, do not turn the valve off until the canister is completely empty or cleaning the equipment is required. (See Cleaning procedure).
2. Achieve the correct spray pattern/fan by slowly adjusting the trigger lock until the desired pattern is achieved by visually matching the adhesive spray pattern to the Correct Spray Pattern on the Spray Pattern Guide (below).



3. Spray the adhesive with the trigger fully open, at a height of 12 inches above the substrate, moving at a rate of 1 ft. per second to attain the correct coverage and pattern.
4. Apply the adhesive maintaining a consistent pattern, keeping the spray gun perpendicular to the substrate and approximately 12 inches above the substrate surface. Do not over-spray the adhesive. Maintain the correct adhesive spray pattern.
5. Allow the adhesive to "flash-off". Use the finger test to determine the correct flash-off time. Adhesive should not transfer to the finger when touched. Mate the substrate surfaces together and broom or roll the adhered areas with a stiff push broom or heavy flooring roller. **IMPORTANT:** All adhered Fleece Back EPDM or Fleece Back TPO must be mated to the substrate and rolled with a 150 lb. roller to ensure complete adhesion.

## CLEANING PROCEDURES

To prevent material from hardening in the spray gun and hose, do not remove or evacuate the hose and spray gun unless connecting to a new canister. Leave the hose and spray gun connected to the canister with the canister valve open to maintain pressure in the hose and spray gun. Keep the spray gun locked when not in use. Clean any remaining adhesive residue from the guns, tips, and other tools with mineral spirits.

When removing the spray gun and hose for extended storage, it is recommended to use Millennium Canister Flush Solution. Refer to the Millennium Canister Flush Solution Technical Data Sheet for detailed cleaning instructions.

## COLD WEATHER APPLICATIONS

RPI Millennium Sprayable Bonding Adhesive can be applied at ambient temperatures of 25°F and above as long as the canister/adhesive temperature is a minimum of 70°F.

For applications taking place in temperatures below 70°F, the canisters must be stored in a heated space and not be staged rooftop. If the canister/adhesive it to cold, it will begin to "spit" rather than spray. The cold canister must be replaced with a warm canister. Warm rooms and/or power blankets may be used to maintain the proper canister temperature.

When changing canisters, close the valve on the canister and release the pressure from the hose/gun assembly. Remove the hose from the old canister. Attach the hose to the new canister and open the valve. Perform a test spray before proceeding.

### LIMITATIONS

Not for use on PVC or KEE membranes.

### SAFETY

Millennium Sprayable Adhesive contains a flammable liquid propellant and vapor.

**KEEP AWAY FROM OPEN FLAME AND SPARKING DEVICES.** Use only in well ventilated, open areas. Vapors of applied adhesive are heavier than air and may travel at ground level through ventilation openings and be ignited by pilot lights, heaters, static discharge, or electric motors. Do not smoke near adhesive. Avoid inhalation of spray mist or vapors. Wear appropriate PPE, gloves and goggles when using this product. Read product labels and Technical Data Sheets prior to use.

### STORAGE

Canisters must be stored in a dry, secure, temperature controlled environment above 70°F. Do not allow storage area temperatures to reach or exceed 100°F. Contents are flammable. Store in accordance with local, state, and federal regulations.

When storing with hose and gun attached, keep canister valve open to maintain pressure in the hose/gun. Periodically spray the gun to prevent clogging. Keep the guns trigger locked when not in use.

### SHELF LIFE

Shelf life is 12 months for product stored in unopened packages at temperatures between 40°F and 100°F.

### Typical Properties and Characteristics

Color	Pale Green
VOC	>250 g/l Approved for use in all markets
Gross Wt. per canister	45 lbs.
Shelf Life	1 year

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

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### **PRECAUTIONARY**

1. For professional use only.
2. Extremely Flammable.
3. Vapors may ignite explosively under certain conditions.
4. Do not smoke when using.
5. Keep away from open flames, sparks, and other sources of ignition.
6. Do not use indoors or outdoors in areas that do not provide adequate ventilation.
7. Avoid contact with skin and eyes. Protective eye wear along with OSHA approved gloves should be worn.
8. When using in cold temperatures, keep the adhesive in warm room until use. Adhesive canister temperature must be a minimum of 70°F before using.
9. Keep out of reach of children.
10. Avoid contact with skin. Wash hands thoroughly after handling. In case of contact with skin, wash affected areas with soap and water.

### **PACKAGING**

#### **Available in:**

1 Canister per carton

#### **Weight per canister:**

45 lbs gross weight/canister

#### **Canisters per pallet:**

36 canisters/pallet



See UL Roofing Materials and Systems Directory  
R10073