

PRODUCT DATA SHEET
Rubberall Millennium
Sprayable Bonding Adhesive



Water Tight Technologies, LLC
P.O. Box 899, Payson, AZ 85547
www.watertighttech.com

Description:

RUBBERALL® Millennium Sprayable Bonding Adhesive is a specially formulated bonding adhesive designed for use with Rubberall EPDM and Brite n Easy TPO standard and/or fleece backed membranes to adhere to insulation boards such as Polyisocyanurate, wood fiber boards, metal, plywood, oriented strand boards (OSB), masonry block, brick, and other approved roofing substrates. It may be used as a contact bonding adhesive for both vertical and horizontal surfaces. It is especially formulated for use in OTC state with Low VOC requirements. May dry faster than regular bonding adhesives due to the solvent content. It must be applied with available spray gun, hose, and other accessories.

Suggested Uses:

To adhere RUBBERALL® membrane to insulation board (except polystyrene), plywood, OSB (Oriented Strand Board), one-half inch (1/2") high density wood fiber board, brick and concrete block.

Sizes: Rubberall Millennium Sprayable Bonding Adhesive is available in 45 lb pressurized canisters. (36 canisters per pallet)

Basic Application:

Rubberall Millennium Sprayable Bonding Adhesive is applied using a spray gun with a single hose attached to a pressurized canister. The adhesive is applied to both surfaces as a fully adhered installation. When using on fleece back membranes, more adhesive may be required. On vertical surfaces (and when going over asphalt or rough surfaces, an initial light coat may be required before the main vertical coating is applied. Care must be taken to ensure adequate adhesive coverage when using on some substrates with irregular surface patterns.

After the adhesive has flashed-off, the two surfaces can be mated together and broomed (with heavy pressure) or rolled with a heavy flooring roller. When applying to fleece back membranes, a 150 lb. roller must be used to ensure proper adhesion.

Approved Substrates:

Acceptable substrates include:

Plywood, OSB (oriented strand board), brick, concrete block, polyisocyanurate (iso) insulation, HD iso cover board, Densdeck Prime and Securock barrier boards, and metal.

Note: All surfaces must be completely dry and free of dust, dirt and debris.

Required Equipment:

Spray Gun (with or without a wand extension), with hose, and spray tips.

Hose lengths of 6ft., 12ft. and 18ft. are available.

Coverage Rates:

Coverage rates may vary depending upon the type of substrate and the substrate surface. Substrates with rough surfaces may require more adhesive while smooth surfaces may result in higher coverage rates. Applications over asphalt coatings or with residual asphalt should have an initial coat of adhesive applied to seal the asphalt. After the adhesive has flashed-off, another coat of adhesive should be applied to the substrate.

Horizontal/Field:

A coverage rate of 1000 sq.ft. per canister for both Rubberall EPDM and Brite n Easy TPO membrane and substrate (iso insulation/barrier boards) should be expected. Coverage rates for fleece backed membranes will be less.

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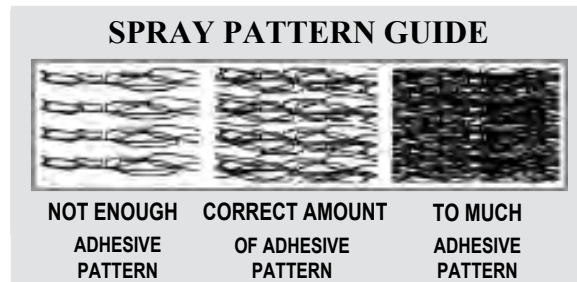
Vertical Walls/Curbs:

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

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 heavy pressure using 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 on 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.

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Cold Weather Applications:

Rubberall 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 application taking place in temperatures below 70° F, the canisters must be stored in a heated space and not be staged rooftop. If the canister and adhesive is too 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.

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 temperature to reach or exceed 100° F. Contents are flammable. Store in accordance with local, state, and federal regulations.

Shelf Life:

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

Packaging:

Available in:	Weight per canister	Canisters per pallet	Part #
1 canister per carton	45 lbs	36 canisters	BASP30

Sprayable Bonding Accessories

Item	Item #	Quantity
SPRAY GUN	BSPGUN	1 per carton
BRASS SPRAY TIPS	BASPTIP	20 per carton
SPRAY HOSES		
6 FT. HOSE	BASP6HOSE	1 per carton
12 FT. HOSE	BASP12HOSE	1 per carton
18 FT. HOSE	BASP18HOSE	1 per carton

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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.
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 a warm room until use. Adhesive canister temperature must be a minimum of 70⁰ F before use.
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 and water.

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

NOTE: TECHNICAL INFORMATION AND DATA SHOULD BE CONSIDERED REPRESENTATIVE OR TYPICAL ONLY AND SHOULD NOT BE USED FOR SPECIFICATION PURPOSES.

User's Responsibility

This Product Data Sheet cannot cover all possible situations which the user may experience during product application/processing. Each aspect of your operations should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers, along with the applicable MSDS sheet. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

Disclaimer of Liability

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user.