



Rub-R-Wall® Airtight Air and Vapor Barrier (AVB) System

We can't stop the rain, but we can create a barrier.

Rubber Polymer Company

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Description

BASIC USE AND APPLICATIONS

Rub-R-Wall® Airtight Air and Vapor Barrier (AVB) System provides a seamless, 100% rubber continuous membrane around the building envelope. It is impermeable to air and water vapor transmission and can be spray applied directly to concrete, CMU and exterior drywall. It is approved by the Air Barrier Association of America. (ABAA) and may be used in tested NFPA 285 assemblies.

Rub-R-Wall® Airtight Air & Vapor Barrier is designed to be installed in cavity walls in new construction. It is not intended to be used for interior application or left permanently exposed.



Rub-R-Wall® Airtight AVB Benefits

- Seamless air and vapor barrier.
- Vertical or horizontal application.
- Covers complex contours.
- Applied at ambient temperature.
- Bridges minor joints and cracks in walls or decks.
- Tenacious bond.
- Low temperature flexibility.
- Does not absorb water.
- Resistant to bacteria, chemicals, and solvents.
- Does not absorb water.
- Resists suction pressure due to wind gusts and sustained wind.
- Estimated life expectancy exceeds 100 years.

ACCESSORIES

- Primer: Rub-R-Wall® SA Primer, single-component, elastomeric compound.
- Substrate Repair Materials: Rub-R-Wall® Mastic, heavy-bodied rubber mastic.
- Reinforcing Strips: Rub-R-Wall® SA Sheet Membrane, self-adhering SBS-modified-bitumen sheet membrane, 40 mil thickness.

LIMITATIONS

In its cured state on the wall, Rub-R-Wall® Airtight AVB is solvent-free, non-toxic and non-carcinogenic. However, in its liquid form contains flammable and hazardous solvents. It must be applied by Certified Applicators. Training is available.

Do not apply Rub-R-Wall® Airtight AVB when the ambient temperature is below 15 degrees F.

Storage and Handling

Handle and store products according to manufacturer's written recommendations and Local, State, Federal, Fire, D.O.T and environmental codes. For detailed information refer to Material Safety Data Sheet (MSDS) and safety and application information in Rubber Polymer Company's "Operation, Safety and Procedure Guideline Manual."

Application

Do not apply over frozen surfaces or asphalt or tar based products. Rub-R-Wall® Airtight AVB may be applied over self adhering rubberized asphalt membranes. Rubberized asphalt membranes may be applied over Rub-R-Wall® Airtight AVB. Poured concrete walls, mortar, masonry block cores filled with concrete, and parged surfaces must be cured before applying.

Application should be made in multiple, uniform passes to obtain a wet membrane thickness of 60-80 mils as determined by a standard mil gauge. A cured thickness of 30-40 mils will result. Spraying a primer or tack coat first will help eliminate sags and runs. Rub-R-Wall® Airtight AVB membrane should be firm after 15-20 minutes

Availability

Since 1992, Rubber Polymer Company has delivered the highest quality products for the waterproofing industry for thousands of building products all over the United States and Canada. Contact Rubber Polymer Company for availability near you.

Technical Services

Detailed information including product literature, test reports, installation instructions, and special applications is available. Please speak to a technical representative.

Available Resources

Section guide specification for products in CSI 3-part format is available from Rubber Polymer Company.

Sustainable Design Contributions

Developed to be environmentally friendly by providing asphalt-free formulas that are environmentally responsible.

Referenced Standards

ASTM International

- ASTM C836/C836M - Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course.
- ASTM D95 - Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation.
- ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Tension.
- ASTM D903 - Standard Test Method for Peel or Stripping Strength of Adhesive Bonds.
- ASTM D4299-83 - Test Method for Effect of Bacterial Contamination on Performance of Adhesive Preparations and Adhesives Films.
- ASTM E96/E96M - Standard Test Methods for Water Vapor Transmission of Materials.

- ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
- ASTM E 330/E330M - Standard Test Method for Structural Performance of Exterior Windows Doors Skylights and Curtain Walls by Uniform Static Air Pressure Difference.

Rub-R-Wall® AVB Physical Properties		
Air Leakage Rate	ASTM E283/E283M	0.0004 cfm/ft. sq. on block/drywall
Elongation	ASTM D412 (Die C)	>1,800%
Low Temp Flexibility	Bend around 0.5-inch mandrel	Flexible to -20 deg. F
Abrasion Resistance	700 psi on 0.06-by-0.06-inch point at 1 inch per sec	>0.10% membrane loss
Asphalt Content		0.0 percent
Peel Adhesion	ASTM D903 (Block) ASTM D903 (Drywall)	7.65 lbs./inch 12 lbs./inch
Crack Bridging	ASTM C836/C836M	> 10 cycles to 1/8 inch at -15 deg F
Water Vapor Permeance	ASTM E96/E96M	< 0.08 perms per dry 40-mil coating
Liquid Water Absorption	ASTM D95	< 0.5% weight
Resistance to Bacterial	ASTM D4299-83 (modified)	No attack
Resistance to Gust Wind Load	ASTM E330/E330M	Resists suction of 62.8 lbs./sq. ft. for 10 secs.; no increase in air leakage to 1.6 lbs./sq. ft.
Resistance to Sustained Wind Load	ASTM E283/283M	Resists suction of 20.9 lbs./sq. ft. for 1 hr.; no increase in air leakage to 1.6 lbs./sq. ft.
Solvent Resistance	Visual	Exceeds performance of modified asphalts
Life Expectancy	Arrhenius Projection Theory	Exceeds 100 years

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