

PRODUCT DATA

435 NON-PERMEABLE AIR & VAPOR BARRIER

Description

SD 435 is a non-permeable water-based asphalt emulsion modified with blended polymers and special additives. SD 435 is used as an air barrier vapor barrier and water resistive barrier in above-grade wall assemblies. This product is applied through co-spray, 1-part spray or roller application to attain a 40-mil dry film thickness membrane. SD 435 can be applied over masonry, concrete, exterior gypsum sheathing, plywood, OSB and many other common building materials. This product fully adheres to the substrate and is rubber-like flexible.

Featured Advantages

- Coverage is monolithic and self-sealing properties around fasteners, causes watertight installation.
- The co spray applied product has quick resistance to rain wash off and can be applied in damp and or cool conditions, giving installation in all seasons. As well as a single coat process that reduces time on the job site.
- Multi-faceted application: 1-part spray or roller.
- Legal in all 50 states: Non-flammable and fume free

Preparation

Identify all coatings, membranes, sealants, joint compounds, and tapes by others which will be in contact with the SD 435 and make sure they are compatible with the SD 435. Surfaces must be clean, dry, frost free and in good condition. Make sure all wall assemblies are dried in, so that water intrusions will not occur from, above, around, or behind the installation of the membrane. Any voids, (gaps and cracks) need to be filled.

Packaging

Available in 5 gal pails, 55 gal drums, or 330 gal totes.

Physical Properties

<u>PROPERTY</u>	<u>METHOD</u>	<u>RESULTS</u>
Color		Uncured: dark brown, cured: black
Shelf Life		12 months
Service Temperature		-20°F to 149°F
Drying time at 73°F/50% RH: 1 prt application		4 h for 40mil wet coat, 48 h for 65 wet mil system to dry firm
Drying time at 73°F/50%		Firm cure <5 minutes, Fully dry in 12 hours
Percent Solids (weight)		62%
Coverage (Theoretical)*		24 sq. ft gallon
Co-Spray minimum application temperature		40°F, with standard procedure, 20°F with cold-weather measures
Volatile Organic Content		<70 g/l
RH: co-spray application 65 wet mils		
1-part spray or roller minimum application temperature		40°F, ambient and substrate
UV Exposure		30 days maximum
Resilience	ASTM D5329	98% (recovery)
Low-Temp Crack Bridging	ASTM C1305	No cracking after 10 cycles at -15°F
Air Leakage Through Assembly	ASTM E283	<0.02 L/s*m ²
Extensibility over Crack after Heat Aging	ASTM C1522	No cracking
Peel Adhesion (lb/in)	ASTM D903	HDPE Film 12.2, Concrete 14.1, CMU 14.1, Densglass® Gold 13.1
Pull-Off Adhesion	ASTM D 4541,	20 PSI on Densglass Gold modified 4" wood puck
Elongation	ASTM D412	>28 PSI on CMU (max load capacity of pull tester)
Water Vapor Permeance	ASTM E96 (desiccant method)	1,000%
Low-Temp Flexibility	ASTM D1970	0.02 Perm
		No cracking at -20°F, bent over 1" mandrel

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