



## OVERVIEW

RS-100 is a water-based sprayable sealant, engineered to seal joints, penetrations, and seams from inside of the HVAC ductwork. The superior physical properties of this non-tack sealant will meet and exceed the SMACNA pressure classes and its flexibility allows for system operation without cracking. RS-100 sealant is formulated with EPA-registered chemicals to resist microbial growth on the surface of the sealant.

## PART NUMBERS

319025 (1) 5-Gallon Pail

## FEATURES AND BENEFITS

- Low-VOC water-based sealant
- No residual tack when cured
- Engineered to seal joints, seams, and penetrations from the inside of the duct
- Resists cracking from duct movement and vibration
- UL 181 Listed, USDA, FDA, EPA Approved

## SPECIFICATIONS/STANDARDS COMPLIANCE

Property	Method	Results
Color	Visual	Wet - Light Blue Dry - Dark Blue
Base		Synthetic polymer
Solvent		Water
Pull-Off Strength	ASTM D4541	30 psi**
Tensile Strength	ASTM D412	175 psi avg.
Low Temp Crack Bridging	ASTM C1305	Pass @ 0°F (-17.7°C)
Low Temp Flexibility	ASTM D1970	Pass @ -5°F (-20°C)
Flexibility	ASTM C765	Passes ¼" mandrel bend @ -25°F (-31.6°C)
Water Resistance		Excellent
VOC (Exempt)	EPA Method #2	0 g/l
VOC (Non-Exempt)		48 g/l (less water)
Flame	ASTM E84/UL 723	0
Smoke	ASTM E84/UL 723	0
Service Temperature	ASTM D2485/D2243	-20°F to 200°F (-28.8°C to 93.3°C)
Pressure Test	Independent 24 Hour Test up to 5/8" Diameter	16" w.c.
Freeze/Thaw & Heat Cycling	ASTM C731	Pass
Freeze/Thaw Stability		Passed 5 Cycles
Time to Test (at average temperature and humidity)		20 Mils – 30 Minutes* 30 Mils – 60 Minutes* The material will not transfer when touched but will indent with pressure. Dry Through: 24 to 48 hours.
UL Rating	UL 723	Passes/Classified
VOC Limitation	SCAQMD Rule 1168	Pass
NFPA	90A & 90B	Class 1
Microbial/Mildew Resistance		Sealant will resist microbial growth on its surface
Weight per Gallon		11.3 +/- .5 lbs. (5.126 +/- .226 kg)
Solids Content		67% ±2
Viscosity		60,000 - 70,000 cps
Coverage (per gallon)		Approximately 75 ft² Per Gallon @ 20 Mil Thickness
Fungus Resistance	ASTM D5590	No Growth
Slump Test	ASTM D2202	Pass

\*May vary according to thickness, temperature, air flow, and humidity

\*\*Tested on CMU, under the Carlisle trade-name Barritech VP



## STORAGE

Temperature	35°F to 110°F (1.7°C to 44°C) DO NOT FREEZE
Shelf Life	One year (unopened)
Flammability	Nonflammable

## APPLICATION

Temperature	40°F to 110°F (4.4°C to 44°C)
Preparation	Clean and remove all dust and loose particulate from ductwork. Follow duct manufacturer's instructions for proper cleaning.
Method	Spray applied via HVAC robotics or airless sprayer. Can also be applied with paint brush or roller.
Rate	Apply to joints, seams, and penetrations at a minimum of 20 mils.
Clean Up Wet	Soap and water
Clean Up Dry	Un-Tack™ or solvent (Use safe handling practices.)


## PRECAUTIONS


Surface must be clean and free of moisture, contamination and foreign matter. Do not allow this product to freeze. Apply when temperatures will not fall below freezing for at least 36-48 hours, depending on temperature and humidity. Do not apply this product where temperatures will exceed 200°F (93.3°C). Keep out of the reach of children. Review SDS for complete safety information prior to use. DO NOT use where acidic or alkaline chemicals are present (ie., lab fume hood, vents, etc.)



## LEED

Post-industrial Recycled Content	0%
Pre-consumer Recycled Content	0%
VOC Content	48 g/L
Manufacturing Location(s)	Wylie, TX

CAULKING AND SEALANTS	
	<b>94PF</b>
	SURFACE BURNING CHARACTERISTICS
	FLAME SPREAD..... 0 SMOKE DEVELOPED..... 0
<small>*Applied to inorganic reinforced Cement Board *Tested as applied in one 3 in. (76.2 mm) wide strip, on center covering 16.7 percent of the exposed test sample area) at a coverage of 80 sq. ft/ gal (2 sq. M/L). Flash point of finished sealant, closed cup : No flash to boiling.</small>	

	<b>17NF</b>
	<b>UL 181B-M</b> Mastic closure systems for use with flexible duct systems or connectors.