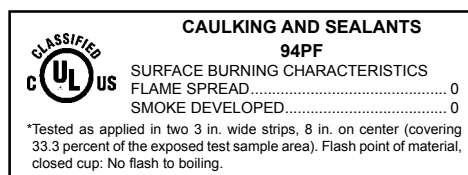
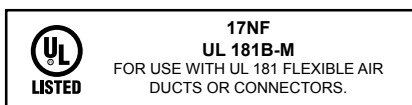


OVERVIEW

Duct-Seal 321 is a GREENGUARD Gold Certified, all-purpose, industrial-grade duct sealant for all types of metal duct, fiberglass duct board, duct fabric and flex duct. It includes UV inhibitors for extended outdoor exposure and built-in fiber reinforcement for added strength. This non-toxic water-based product is solvent free and is suitable for residential use.



PART NUMBERS

Property	Product Description
304159	1 Case w/ (25) 11-oz. Cartridges (Gray)
304156	1 Case w/ (4) 1-Gallon Pails (Gray)
304158	(1) 5-Gallon Pail (Gray)
332926	1 Case w/ (4) 1-Gallon Pails (White)

SPECIFICATION/STANDARDS COMPLIANCE

Property	Method	Results
NFPA	90A & 90B	Class 0
VOC	EPA Method #24	Exempt: 0 g/l, Non-exempt: < 75 g/l (less water)
GREENGUARD	UL 2818	GREENGUARD Gold Certified
Aging Effects of Artificial Weathering	ASTM C732	Passed @ 1,500 Hour Exposure
Pressure Test	Independent 24 Hour Test up to 1/8" Diameter	20" w.c.
Dry Time*	ASTM D1640 (Humidity 50% +/- 5%, Temp 73°F +/- 3°F (23°C +/- 2°C))	24 hours
Fungus Resistance	ASTM G21 & ASTM D3273	Pass
Water Resistance	CSTM. RA 8.0	Pass
US Coast Guard Interior Finish	46 CFR 164.012	Approved

*Note: May vary according to temperature, humidity, and application thickness.

FEATURES AND BENEFITS

- Smooth application
- Added UV resistance
- Department of Homeland Security Approval
- Meets CDPH Standard Method V1.2-2017
- LEED V4 Qualified
- Passes SCAQMD Rule 1168
- Made in the USA



- True zero and low-VOC products are resistant to mold, mildew, and fungi
- Properly installed and sealed systems promote optimal indoor air quality



- Hardcast's line of water-based duct sealants and coatings have been awarded GREENGUARD Certification (UL 2818)
- GREENGUARD Gold certified products meet the strictest chemical emission limits to account for sensitive individuals and ensure products are acceptable for schools and healthcare facilities

TYPICAL PROPERTIES AND CHARACTERISTICS

Color	Gray & White
Consistency	Smooth creamy texture
Base	Synthetic latex
Solvent	Water
Weight (per gallon)	10.6 lbs +/- .5 lbs (4.8 kg +/- .23 kg)
Solids Content	65% +/- 2%
Viscosity	> 250K cps
Coverage (per gallon)	Up to 320 lin. ft. at 3" width, 20-mil thickness (80 ft²)
Coverage (per cartridge)	Up to 130 lin. ft. at 1/8" bead (16.25 ft²)
Shore A Hardness	> 20
Flexibility	Passes 1/4" mandrel bend test
Time to Test*	24 hours (Humidity 50% +/- 5%, Temp 73°F +/- 3°F (23°C +/- 2°C))
Dry Time to Touch*	1-2 hours (Humidity 50% +/- 5%, Temp 73°F +/- 3°F (23°C +/- 2°C))
Service Temperature	-20° - 200°F (-28.8° - 93.3°C)
Mildew Resistance	Excellent mold and mildew resistance
Seal Class	Meets Seal Class A
Freeze/Thaw Stability	Passes 5 cycles
Slump Test	Pass (ASTM D2202)

*Note: May vary according to temperature, humidity, and application thickness.

PRECAUTIONS

Do not allow this product to freeze. Apply when temperatures will not fall below freezing for at least 36-48 hours. Do not apply this product where temperatures will exceed 200°F (93.3°C). Duct sealant applied in the interior duct must be dry prior to applying duct protection film. Keep out of the reach of children. Review Safety Data Sheet for complete safety information prior to use.

DO NOT use where acidic or alkaline chemicals are present (i.e., lab fume hood, vents, etc.). For Industrial Professional Use Only.

APPLICATION

Temperature	35° - 110°F (1.7° - 44°C). Keep at 70°F prior to use and for optimum performance. If product temperature falls below 70°F, move it to a warm area until optimum performance is achieved.
Method	Apply using a chip brush, putty knife, or caulk gun at transverse joints, longitudinal seams, and any duct wall penetration.
Preparation	Surface must be dry and free of dirt, oil, moisture, and grease.
Rate	Pail: 20- to 30-mil wet film thickness at 3" wide, Cartridge: bead that completely covers joint
Clean Up Wet	Soap and water
Clean Up Dry	Low-VOC UN-TACK™ Cleaner/Adhesive Remover, petroleum solvents, or mineral spirits
Painting	Allow 72 hours cure time. Use only latex or epoxy paints.

STORAGE

Temperature	35° - 110°F (1.7° - 44°C)
Shelf Life	One year (unopened)
Flammability	Non-flammable

LEED®

Post-Industrial Recycled Content	0%
Pre-consumer Recycled Content	0%
Total VOC	≤ 0.22 mg/m³
Manufacturing Location(s)	Wylie, TX


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