TECHNICAL bulletin

DP 1090

LOW VOC SOLVENT BASED DUCT SEALANT

A smooth, solvent based, premium quality, UL Classified, high pressure/high velocity duct sealant for commercial and industrial supply and return air duct use.

Recommended Uses:

DP 1090 is recommended for sealing joints, seams, and duct wall penetrations in commercial and industrial applications.
DP 1090 is recommended for sealing supply and return rectangular, round, oval and metal flexible ducts.
DP 1090 is recommended up to 15 inches water column pressure.
DP 1090 is recommended for projects requiring LEED certification.

Features and Benefits:

- **LEED V4** Qualified
- UL Classified
- Low VOC
- Meets Requirements of NFPA 90A & 90B, ASTM E-84, and UL-723
- Meets CDPH Emission Requirements
- California Compliant
- Excellent Water and U.V. Resistance
- Excellent Workability
- Crack and Peel Resistant
- Mold and Mildew Resistant
- Indoor and Outdoor Usage
- Minimal Shrinkage
- Sag Resistant
- PVS/PVC Steel Application

Directions For Use:

Uses: DP 1090 may be used to seal joints on sheet metal and metal flexible supply and return air duct.
Surface Preparation: Surfaces should be clean, dry and free of dirt, oil and any foreign matter.
For sheet metal duct: DP 1090 should be applied to all connections according to SMACNA standards. Brush, caulk, pump or trowel DP 1090 on all duct seams. Apply to TDC/TDF and applied flange corners. Apply to all penetrations in the duct wall including sheet metal screw heads and tie rods. When caulking DP 1090, sealant should be brushed into seams.
For round and oval spiral duct: Apply DP 1090 to the male section of the fitting or to the inside slip duct coupling. Secure with sheet metal screws per manufacturers requirements. Apply a 2-inch band of DP 1090 around outside of joint, covering all screws.
For metal flexible duct: Install flexible duct per manufacturers instructions using drawbands or mechanical fastener. Apply DP 1090 between the end of the duct and the collar in a 2-inch band. Use DP 1090 to seal all connections of collar to metal duct.
Pressure Testing: Allow at least 24 hours before pressure testing. Since temperature and humidity conditions may vary, longer cure times may be required for specific installations.

Use only with proper ventilation and protection; consult SDS. DP 1090 is flammable. Use with caution. For Professional Use Only.

Technical Data:

Color: Tan
Base: Solvent
Chemical Family: Synthetic Elastomeric
Solids Content: 68 ± 2%
Viscosity: Approx. 120,000 - 180,000 cps
Application Temperature: 0°F to 110°F
Storage: Do not store where temperature exceeds 110°F or falls below 0°F. Optimum storage temperature at 60° F - 80° F
Freeze/Thaw Stability: 5 cycles no deterioration (DPTM-20)
Service Temperature: -20°F to 190°F
Flammability: Extremely flammable
Flash Point: Closed cup: -0.4°F (-18°C)
Shelf Life: 9 Months (unopened containers)
Cure Time: 24-72 hours depending on temperature, humidity, and application
Coverage: Dependent on application thickness, 80-100 sq. ft. at approximately 20 wet mils
Clean Up: Mineral spirits or acetone
Packaging: 10 ounce tubes, 1 gallon pails
Pressure Classes: Meets all SMACNA pressure classes
Seal Classes: Meets all SMACNA seal classes
VOC: 44 g/l (SCAQMD Rule #1168)

UNDERWRITERS LABORATORIES INC.
CLASSIFIED ADHESIVES
SURFACE BURNING CHARACTERISTICS

CLASSIFIED UL

DP 1090 Duct Sealant Applied to Inorganic Reinforced Cement Board

	A	B
Flame Spread:	0	0
Smoke Developed:	0	0

Test applied in one 2" (50.8 mm) wide strip - (A) 0.02 inch (0.508 mm) thick (B) 0.03 inch (0.7620 mm) thick. (Coverage: 11 percent of the exposed test area)

0.02 inch (0.508 mm) equals an applied rate of 80 sq. ft. per gallon and 0.03 inch (0.7620 mm) equals an applied rate of 53.3 sq. ft. per gallon

DESIGN POLYMERICS

A **Meridian** Brand

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