



COMPLIANCE TESTED by berkeley analytical

VOC Emission Test Certificate

Product Name: DP 2501/2502

Product Sample Information		Certificate Information	
Manufacturer:	Design Polymerics	Certificate No:	150908-02
Manf. Website:	www.designpoly.com	Certified By:	
Product Category:	Adhesive		Raja S. Tannous, Laboratory Director
Date Produced:	8/11/2015	Date:	September 8, 2015

Reference Standard: California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010 (Emission testing method for CA Specification 01350)

Acceptance Criteria and Results Demonstrating Compliance of Product Sample to Referenced Standard:

Exposure Scenario ¹	Individual VOCs of Concern ²		Formaldehyde ³		TVOC ⁴
	Criterion	Compliant?	Criterion	Compliant?	Range
School Classroom	≤½ Chronic REL	YES	≤9.0 µg/m ³	YES	≤ 0.5 mg/m ³
Private Office	≤½ Chronic REL	YES	≤9.0 µg/m ³	YES	≤ 0.5 mg/m ³

Product Coverage⁵: 114 g/m²

1. Exposure scenarios & product quantities for classroom & office are defined in Tables 4-2 – 4-5 (CDPH Std. Mtd. V1.1-2010)
2. Maximum allowable concentrations of individual target VOCs are specified in Table 4-1 (*ibid.*)
3. Maximum allowable formaldehyde concentration is ≤9 µg/m³, effective Jan 1, 2012; previous limit was ≤16.5 µg/m³ (*ibid.*)
4. Informative only; predicted TVOC Range in three categories, i.e., ≤0.5 mg/m³, >0.5 – 4.9 mg/m³, and ≥5.0 mg/m³
5. Informative and applicable only to tests of wet-applied products; grams of sample applied per square meter of substrate

Standards & Codes Recognizing CDPH Standard Method V1.1 (partial list)

- USGBC LEED CI, NC, Schools, Healthcare, 2009
- USGBC LEED Version 4, BD&C, ID&C, 2013
- Collaborative for High Performance Schools (CHPS), National Core Criteria, 2013
- Green Guide for Healthcare, V2.2, 2007
- ANSI/GBI 01-2010, Green Building Assessment Protocol

Narrative: Design Polymerics selected a sample representative of its DP 2501/2502 product and submitted it on 8/14/2015 for testing. Berkeley Analytical measured and evaluated the emissions of VOCs from this sample following CDPH/EHLB/Standard Method V1.1-2010. The results of the test are presented in Berkeley Analytical report, 777-001-02A-Sep0815.

Berkeley Analytical is an independent, third-party laboratory specializing in the analysis of organic chemicals emitted by and contained in building products, finishes, furniture, and consumer products. We are an ISO/IEC 17025 accredited laboratory (IAS, [TL-383](#)); all standards used in performing this test are in Berkeley Analytical's scope of accreditation.

DISCLAIMER: THIS CERTIFICATE OF COMPLIANCE AFFIRMS THAT: 1) A SAMPLE OF THE LISTED PRODUCT WAS TESTED ACCORDING TO THE REFERENCED STANDARD; 2) THE MEASURED VOC EMISSIONS FROM THE SAMPLE WERE EVALUATED FOR THE DEFINED EXPOSURE SCENARIO(S); AND 3) THE RESULTS MEET THE ACCEPTANCE CRITERIA OF THE REFERENCED STANDARD(S). BERKELEY ANALYTICAL IS NOT RESPONSIBLE FOR ANY CLAIMS REGARDING A PRODUCT OR PRODUCTS ENTERED INTO COMMERCE THAT MAY BE BASED ON THIS TEST. BERKELEY ANALYTICAL PROVIDES THIS CERTIFICATE OF COMPLIANCE "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE.



TO: *Al Hodgson*
Berkeley Analytical
815 Harbor Way South, Suite 6
Richmond, CA 94804-3612

RE: Emission Testing, CDPH Standard Method V1.1, LEED EQ v4

Al,
Below is the rational and calculations for Design Polymerics DP 2501/2502 used in a standard office and standard classroom.

DP 2501/2502 all 400 square feet per gallon application rate.

CLASSROOM

Supply Duct - Rectangular duct, insulated. Snap lock round pipe construction uninsulated. Flexible duct.

16" x 16" at 20' length	
1 reducer modeled as 1' 16"x16"	
21' x 16" x16"	22 3/4 sq ft
12" x 12" at 15' length	15 sq ft
1 end cap 12"x12"	1 sq ft
Less 8 taps at 8" diameter	<2 3/4 sq ft>

Total Classroom **36 square feet at 400 square feet/gallon application rate**

OFFICE

Supply Duct - Rectangular duct, insulated. Snap lock round pipe construction uninsulated. Flexible duct.

12" x 12" at 10' length	8 sq ft
1 end cap 12"x12"	1 sq ft
Less 1 tap at 8" diameter	<1/4 sq ft>

Total Office **8.75 square feet at 400 square feet/gallon application rate**

Sincerely,


Roxanne Swift

Technical Director

DP

2501

WATER BASED DUCT LINER ADHESIVE

A water based, premium quality, UL Classified duct liner adhesive specifically formulated for spray, brush, and roller applications.

Recommended Uses:

- Bonding fibrous duct wrap and duct liner insulation to galvanized duct work.
- Sealing cut edges of fiberglass insulation.
- Bonding kraft backed foil coverings to fiberglass and urethane flat stock or pipe insulation.
- Bonding multiple layers of fibrous insulation board.

Features and Benefits:

- **LEED** Qualified
- UL Classified
- Excellent Wet Tack
- Non-Flammable
- Moisture Resistant
- Exceptional Coverage
- Low Odor
- Non-Oxidizing
- Meets FDA, USDA, and EPA Standards
- Meets Requirements of UL 723, ASTM E-84
NFPA 90A & 90B, and ASTM C-916 Type II

Directions For Use:

Surface Preparation: Surfaces should be clean, dry and free of dirt, oil and any foreign matter.

Application: DP 2501 may be applied by brush, roller, roller coater, or spray equipment. DP 2501 may be applied to either the galvanized steel or the fibrous insulation.

For internal fiberglass duct insulation: Apply DP 2501 evenly and secure with mechanical fasteners in accordance with SMACNA standards.

DP 2501 should be applied at temperatures above 40°F and should never be exposed to temperatures that exceed 200°F or fall below -25°F. **Do not thin.**

Technical Data:

- Color:** Black or White
- Base:** Water
- Chemical Family:** Synthetic Latex
- Solids Content:** 40 ± 2%
- Viscosity:** Approx. 2,000 - 3,000 cps
- Application Temperature:** 40°F - 110°F
- Storage Temperature:** 40°F - 110°F.
- Service Temperature:** -25°F - 200°F
- Freeze/Thaw Stability:** Do not allow to freeze
- Flammability:** Non-flammable wet or dry
- Flash Point:** No flash to boiling
- Shelf Life:** 1 Year (unopened containers)
- Open Time:** 10 to 20 minutes depending on humidity, temperature, and application rate
- Coverage:** Typical spray application may yield up to 400 sq. ft. per gallon
- Clean Up:** Use warm water and soap
- Packaging:** 5 gallon pail, 50 gallon drum, 275 gallon tote
- VOC:** 22 g/l

UNDERWRITERS LABORATORIES INC.
CLASSIFIED ADHESIVES
5209

DP 2501 Duct Liner Adhesive applied to Inorganic Reinforced Board
Flame Spread: 5 Smoke Developed: 0
Test applied at a coverage rate of 14.7 sq. m/L.
Flash point of liquid adhesive (closed cup), no flash to boiling.



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Phone 714.432.0600
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www.designpoly.com

DP

2502

WATER BASED DUCT LINER ADHESIVE

A water based, premium quality, UL Classified duct liner adhesive specifically formulated for spray, brush, and roller applications.

Recommended Uses:

- Bonding fibrous duct wrap and duct liner insulation to galvanized duct work.
- Sealing cut edges of fiberglass insulation.
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Directions For Use:

Surface Preparation: Surfaces should be clean, dry and free of dirt, oil and any foreign matter.

Application: DP 2502 may be applied by brush, roller, roller coater, or spray equipment. DP 2502 may be applied to either the galvanized steel or the fibrous insulation.

For internal fiberglass duct insulation: Apply DP 2502 evenly and secure with mechanical fasteners in accordance with SMACNA standards.

DP 2502 should be applied at temperatures above 40°F and should never be exposed to temperatures that exceed 200°F or fall below -25°F. **Do not thin.**

Technical Data:

Color: Black or White

Base: Water

Chemical Family: Synthetic Latex

Solids Content: 40 ± 2%

Viscosity: Approx. 2,500 - 3,500 cps

Application Temperature: 40°F - 110°F

Storage Temperature: 40°F - 110°F. Do not allow to freeze

Service Temperature: -25°F - 200°F

Freeze/Thaw Stability: Do not allow to freeze

Flammability: Non-flammable wet or dry

Flash Point: No flash to boiling

Shelf Life: 1 Year (unopened containers)

Open Time: 10 to 20 minutes depending on humidity, temperature, and application rate

Coverage: Typical spray application may yield up to 400 sq. ft. per gallon

Clean Up: Use warm water and soap

Packaging: 1 gallon pail, 5 gallon pail, 50 gallon drum, 275 gallon tote

VOC: 22 g/l

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DP 2502 Duct Liner Adhesive applied to Inorganic Reinforced Board
Flame Spread: 5 Smoke Developed: 0
Test applied at a coverage rate of 14.7 sq. m/L.
Flash point of liquid adhesive (closed cup), no flash to boiling.



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