

Self-Declared Certificate
of Product Conformity
VOC Emissions



Company Information

Company Name:	Design Polymerics
Contact Information:	(714) 432-0600
Website:	https://www.designpoly.com

Product Information

Product Name:	DP 1090 Low VOC Solvent Based Duct Sealant
Product Number:	DP 1090
Product Line:	Sealants
Product Category:	Grouts & Sealants

Exclusions

Exclusions:	None
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VOC Content

Regulatory VOC Content g/L:	44
Regulation:	SCAQMD Rule 1168
Category:	Architectural Sealants
VOC Content test or determination method:	U.S EPA Method 24
Exempt compounds >1% weight by mass of product:	methyl acetate
Does product contain methylene chloride or perchloroethylene?:	No

VOC Emissions

Test Standard:	CDPH Standard Method V1.2
Acceptance Criteria:	CDPH Standard Method V1.2
Use scenario(s) Product type:	Company defined
Building Type:	Classroom+Office
Product coverage g/m ² :	799
TVOC concentration at 14-days:	Less or equal to 0.5 mg/m3
Direct or extended claim:	Direct

Compliance Testing

ISO/IEC 17025 accredited third-party laboratory:	Berkeley Analytical, IAS TL-383
Test start date:	10/14/2022
Laboratory certificate number:	221104-03

Extended Claim for Co-product

Name of compliance tested product:	Not Applicable
Number:	Not Applicable
Was listed product screening-level tested for VOC emissions?:	Not Applicable
Basis for extension of claim from compliant product to co-product:	Not Applicable
Brief description of procedures used to ensure product is represented by compliance test results:	Not Applicable

Quality Control

Company maintains internal quality control program to ensure manufactured units are produced consistently and meet the requirements and acceptance criteria of listed standard(s):	Yes
Tested product sample was selected from typical production and is representative of commercial product. Where there are expected variations, sample was selected from production lot or group expected to give worst-case results:	Yes
If claim is for product other than product that was sampled and compliance tested, company maintains record of procedures used for extending claim in form of test results, calculations, formulations, or other information:	Not Applicable

Self-Declaration Signature

I affirm that I am authorized to make claims established in this declaration:	Yes
I certify that the information in this declaration is true and correct:	Yes
Date:	02/15/2023
Name of company representative:	Gregg Lindblom
Title:	Technical Director
Signature:	Gregg Lindblom

This ClearChem template is a standardized reporting form used by companies to make self-declared claims about the environmental performance of their products. Only companies that have entered into a binding Implementation Agreement with Berkeley Analytical may use this form.

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COMPLIANCE TESTED by berkeley analytical

VOC Emission Test Certificate

Product Name: DP1090

Product Sample Information		Certificate Information	
Company:	Design Polymeric	Certificate No:	221104-03
Company Website:	www.designpoly.com	Certified By:	 Raja S. Tannous, Laboratory Director
Product Type:	Duct Sealant	Date:	November 4, 2022
Date Produced:	8/21/2022		

Reference Standard: California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017 (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 Range
	Criterion	Compliant?	Criterion	Compliant?	
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: 799 g/m² (see manufacturer's letter attached for use and application)

1. Exposure scenarios & product quantities for classroom & office are defined in Tables 4-2 – 4-5 (CDPH Std. Mtd. V1.2-2017)
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 V1.2 (partial list)

- USGBC LEED Version 4/4.1, BD&C, ID&C, Residential BD&C Multifamily
- The WELL Building Standard, WELL v2, Feature X06
- ANSI/GBI 01-2019 Green Globes Assessment Protocol
- ANSI/ASHRAE/USGBC/IES Standard 189.1

Narrative: Design Polymeric selected a sample representative of its DP1090 - a smooth duct sealant product and submitted it on 10/12/2022 for testing. Berkeley Analytical measured and evaluated the emissions of VOCs from this sample following CDPH/EHLB/Standard Method V1.2-2017. The results of the test are presented in Berkeley Analytical report, 777-009-01A-Nov0422.

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.

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FC17B.2



October 10, 2022

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

DP 1090 Smooth Duct Sealant

Use and Application:

A smooth, solvent based, high velocity duct sealant for commercial and residential supply and return air duct use. DP 1090 is recommended for sealing joints, seams, and duct wall penetrations on metal air duct, and for sealing connections on flexible duct or fiberglass duct board.

Coverage: Dependent on application thickness, 40-80 sq. ft./gal. at 20-40 wet mils

For sheet metal duct: DP 1090 should be applied to all connections according to SMACNA standards. Brush, caulk, pump, or trowel DP1090 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 rigid fiberglass air duct: Assemble sections according to the manufacturers' recommendations. Apply a 3-inch by 20 mil band of DP 1090 to the joint. Embed a fiberglass scrim (5 mil, 20 x 10 plain weave, 1.75 oz. per sq. yd.) in the sealant and apply another 20-mil coat of DP 1090 over the scrim.

For flexible duct: Install flexible duct per manufacturers' instructions using draw bands or mechanical fastener. Apply DP 1090 at a rate of 40-80 sq. ft. per gallon (20-40 mils) 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 or rigid fiberglass duct board.

Basis for determining typical or worst-case product use:

Classroom

- Supply Duct consisting of 5 16"x16" joints; 4 12"x12" joints; 24 8" diameter joints, 4 9" reducer seams; 75' linear seams.
- Return Duct consisting of 8 18"x18" joints; 6 12" diameter joints; 35' linear seams.

Office

- Supply Duct consisting of 2 12"x12" joints; 3 8" diameter joints, 15' linear seams.
- Return Duct consisting of 2 16"x16" joints; 2 12" diameter joints, 10' linear seams.

Total Classroom: 234' at 2" width = 39 sq. ft. = **3.6 square meters**

Total Office: 41.5' at 2" width = 6.9 sq. ft. = **0.64 square meters**

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