3M™ Floor Protectors Certified as Low Emitting VOC Coatings

Technical Data Sheet
Revision B, November 2020

Quick Links

Facilities Website

Safety Data Sheets (SDS)

Some of these links lead to web-based resources that are not product-specific.

Now Certified as Low Emitting VOC Coatings

- Scotchgard™ Protect & Shine Floor Protector
- Scotchgard™ Resilient Floor Protector
- Scotchgard™ Stone Floor Protector
- Scotchgard™ Stone Floor Protector Plus

What are VOCs?

Volatile Organic Compounds (VOCs) are carbon containing organic compounds which have a low boiling point and will evaporate or sublimate from the liquid or solid form of a compound and enter the surrounding air at normal room temperatures. These compounds are used as ingredients in numerous products including: resilient flooring, floor polishes/coatings, cleaning chemicals, carpet, wall and ceiling coverings, paints, sealers, adhesives, coatings, and furniture. VOCs can have a wide range of human health effects associated to them, ranging from mild respiratory irritation to longer term effects such as cancer. When VOCs enter the environment, they can also react with other compounds in the atmosphere and contribute to the formation of smog. Furthermore, when these products are used in enclosed indoor environments versus outdoor areas they result in higher airborne concentration of VOCs thereby increasing the probability of adverse effects.

As a result, multiple regulations exist today which limit the amount of VOCs in certain categories of products. A variety of guidelines and standards have also been created to help reduce the impact of VOCs released from building materials. These standards provide a consistent method to measure and quantify the amount of off gassing or evaporation of VOCs from products. Organizations such as the California Department of Public Health (CDPH), and the U.S. Green Building Council, currently publish standards and guidelines designed to help a facility reduce the impact that VOCs can have on indoor air quality.

California Department of Public Health (CDPH) Certification

Scotchgard™ Floor Protectors are now recognized as low emitting VOC coatings by the CDPH and can be used to work towards improving indoor air quality in most commercial environments. Scotchgard™ Floor Protectors were each tested individually under the CDPH standard method v1.2. Compliance testing was conducted by Berkeley Analytical, one of the 35 certified laboratories to perform the testing procedure as outlined in the standard method. Products that meet CDPH certification may also contribute to LEED green building certification.

CDPH Standard Method

The California Department of Public Health (CDPH) Indoor Air Quality Section has a standard method for testing VOC emissions from indoor sources. Three separate criteria are measured: Individual VOCs of Concern, Formaldehyde, and Total VOCs (TVOC). Each of the above-mentioned criteria are measured for two different exposure scenarios, a school classroom and a private office. A standard is used for both scenarios that consist of specified room dimensions, air flow rates, and occupancy that are generally representative of an average classroom or office. A product must be compliant with all three criteria in both scenarios to be considered as passing.

The California EPA created a list of Chronic Reference Exposure Levels (CRELs) for VOCs. According to the CDPH, CRELs are inhalation concentrations to which the general population, including sensitive individuals, may be exposed for long periods (10 years or more) without the likelihood of serious adverse systematic effects (excluding cancer).

The requirements for passing as low emitting VOC are as follows

Individual VOCs of concern	.0.5 CREL
Formaldehyde	.9.0 $\mu g/m^3$
Total VOC	.0.5 mg/m^3 Strip all old finish from floor (follow finish manufacturer's recommended procedure)

What is LEED?

LEED stands for Leadership in Energy and Environmental Design and is a green building rating system created by the U.S. Green Building Council (USGBC). Any building, whether it is new construction or not, can work towards becoming LEED certified. When used in conjunction with other wet-applied low emitting VOC coatings, Scotchgard™ Floor Protectors can be used to attain 3 LEED points on new construction and large-scale remodeling jobs. If LEED certification is not a priority, low emitting VOC coatings can still be used to increase sustainability and indoor air quality.

For more information on the USGBC and LEED, please visit

new.usgbc.org.

For more information on 3M's sustainability programs visit

www.3M.com/sustainability.

3M Science. Applied to Life.™

COMPLIANCE TESTED by berkeley analytical
VOC Emission Test Certificate

Product Name: Scotchgard™ Stone Floor Protector Plus - 75040031660

Product Sample Information		Certificate Information	
Company:	3M	Certificate No:	180417-01
Company Website:	www.3m.com/3M/en_US/company-us	Certified By:	Raja S. Tannous, Laboratory Director
Product Type:	Floor Coatings or Adhesives		
Date Produced:	3/9/2018	Date:	April 17, 2018

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]
	Criterion	Compliant?	Criterion	Compliant?	Range
School Classroom	≤½ Chronic REL	YES	≤9.0 µg/m³	YES	≤ 0.5 mg/m³
Private Office	≤½ Chronic REL	YES	≤9.0 µg/m³	YES	≤ 0.5 mg/m³

Product Coverage[5]: 33 g/m²

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, BD&C, ID&C
- The WELL Building Standard
- ANSI/GBI 01, Green Building Assessment Protocol

Narrative: 3M selected a sample representative of its Scotchgard Stone Floor Protector Plus system- 75040031660 product and submitted it on 3/23/2018 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, 634-008-01A-Apr1718.

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.

FC178.2

COMPLIANCE TESTED by berkeley analytical
VOC Emission Test Certificate

Product Name: 3M Scotchgard™ Protect & Shine Floor Protector - 75040074009

Product Sample Information		Certificate Information	
Company:	3M	Certificate No:	200529-04
Company Website:	www.3m.com	Certified By:	Raja S. Tannous, Laboratory Director
Product Type:	Floor Coatings or Adhesives		
Date Produced:	4/21/2020	Date:	May 29, 2020

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]
	Criterion	Compliant?	Criterion	Compliant?	Range
School Classroom	≤½ Chronic REL	YES	≤9.0 µg/m³	YES	≤ 0.5 mg/m³
Private Office	≤½ Chronic REL	YES	≤9.0 µg/m³	YES	≤ 0.5 mg/m³

Product Coverage[5]: 23 g/m²

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, BD&C, ID&C
- The WELL Building Standard
- ANSI/GBI 01, Green Building Assessment Protocol

Narrative: 3M selected a sample representative of its 3M Scotchgard™ Protect & Shine Floor Protector - 75040074009 floor finish product and submitted it on 5/1/2020 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, 634-014-01A-May2920.

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FC178.2

COMPLIANCE TESTED by berkeley analytical
VOC Emission Test Certificate

Product Name: 3M Scotchgard™ Stone Floor Protector - 70071683356

Product Sample Information		Certificate Information	
Company:	3M	Certificate No:	201119-05
Company Website:	www.3m.com	Certified By:	Raja S. Tannous, Laboratory Director
Product Type:	Floor Coatings or Adhesives		
Date Produced:	8/12/2020	Date:	November 19, 2020

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]
	Criterion	Compliant?	Criterion	Compliant?	Range
School Classroom	≤½ Chronic REL	YES	≤9.0 µg/m³	YES	≤ 0.5 mg/m³
Private Office	≤½ Chronic REL	YES	≤9.0 µg/m³	YES	≤ 0.5 mg/m³

Product Coverage[5]: 28 g/m²

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

Narrative: 3M selected a sample representative of its 3M Scotchgard™ Stone Floor Protector - 70071683356 product and submitted it on 10/19/2020 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, 634-015-01A-Nov1920.

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FC178.2

COMPLIANCE TESTED by berkeley analytical
VOC Emission Test Certificate

Product Name: Scotchgard™ Resilient Floor Protector – 70-0716-5924-0

Product Sample Information		Certificate Information	
Manufacturer:	3M, Commercial Solutions Division	Certificate No:	160425-02
Manf. Website:	mmm.com	Certified By:	Raja S. Tannous, Laboratory Director
CSI Category & No.:	Flooring (09 60 00)		
Date Produced:	3/28/2016	Date:	April 25, 2016

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/m³	YES	≤ 0.5 mg/m³
Private Office	≤½ Chronic REL	YES	≤9.0 µg/m³	YES	≤ 0.5 mg/m³

Product Coverage[5]: 58 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 for Schools, 2009
- USGBC LEED Version 4, BD&C, ID&C, 2013
- Collaborative for High Performance Schools (CHPS), National Core Criteria, 2013
- ANSI/GBI 01-2010, Green Building Assessment Protocol

Narrative: 3M, Commercial Solutions Division selected a sample representative of its Scotchgard™ Resilient Floor Protector – 70-0716-5924-0 product and submitted it on 4/1/2016 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, 634-007-01A-Apr2516.

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FC178.1

Health and Safety

CAUTION

When handling any chemical products, read the manufacturers' container labels and the Safety Data Sheets (SDS) for important health, safety and environmental information. To obtain SDS sheets for 3M products go to 3M.com/SDS, or by mail or in case of an emergency, call 1- 888-364-3577 or 1-651-737-6501.

When using any equipment, always follow the manufacturers' instructions for safe operation.

Technical Information

Technical information and data, recommendations, and other statements provided by 3M are based on information, tests, or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed. Such technical information and data are intended for persons with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. The typical values shown should not be used for the purpose of specification limits. If you have questions about this Product, contact the **Customer Service Department at 1-800-626-8578**.

Product Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty

3M warrants that each 3M product will be free from defects in material and manufacture for 90 days from the date of purchase from 3M's authorized distributor. 3M MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Limited Remedy

If a 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

No Extension of Warranty

In the case of an approved warranty claim, the replacement Product will carry only the remaining term of the original warranty period.

Limitation of Liability

Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted.

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