


	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	
	Document Title:	Certification of VOC of Adhesives and Sealants as per as per Related Sections in Al Sa'fat and Dubai Building Code	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-RD-DP32-5109 (IC)	رقم الوثيقة:	

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Issue Date	Rev. No.	Summary Of Amendments
11-06-2012	0	First draft for comments
19-06-2012	0	Final draft
19-06-2012	1	Issue for use
28-04-2014	2	Amended of the Test Method from BS3900-A23 to SCAQMD 304-91
06-08-2015	3	Aligned with ISO/IEC 17067 by changing terminology to Type 1
13-03-2016	4	Added Clause 4 for the limits of VOC as per GBRS Practice Guide
04-05-2016	5	Amended to allow Type 1a
25-12-2017	6	Amended to change the validity of the certificate
01-07-2018	7	Changed the requirements to Al Sa'fat; Updated the format as per unified DM template
11-04-2019	8	Updated format as per new DM logo
12-05-2022	9	Revised to reflect the 2020 version of Al Sa'fat – Dubai Green Building System. Updated the validity of certification. Format updated with Dubai font. Other updates as highlighted. Alignment with the latest numbering and terminology system in DCLD.
07-10-2022	10	Changing section name as per the new organizational structure, and replace HOU by CQPSM (Section's Manager)
18-04-2023	11	Full re-structuring and transfer of common provisions to the general rule. Align with the updated SA'FAT and Dubai Building Code requirements. Clauses are re-numbered and re-arrange. Document title has been revised accordingly. Additional minor changes (highlighted). Use of New DM Logo.
04-07-2024	12	Changing the logo of the Government of Dubai with the latest design.

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1. INTRODUCTION AND SCOPE

- 1.1 This document prescribes the specific rule for certification of the product(s) as identified herein, in accordance with the requirements of DM Third Party Product Certification Scheme Through Type 1 , taking into consideration the applicable normative references and standard specification, in addition to the requirements for conformity evaluation, as stated below.
- 1.2 The applicant shall comply with these specific rules, and with those already mentioned in the **“General Rules for Type1 Product Certification Scheme” (DM-DCLD-RD-DP32-5001(IC))**.
- 1.3 Type 1a and Type 1b certification shall be issued based on the relevant provisions in the general rules DM-DCLD-RD-DP32-5001(IC).

2. PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE

- 2.1 Product name: Adhesives and Sealants
- 2.2 Applicable standard/Normative reference: Al Sa'fat Dubai Green Building System-2nd edition January 2023-Clauses [404.02], and Dubai Building Code – Parts H and K (as applicable).



3. DEFINITION OF TERMS

The definitions given in DM-DCLD-RD-DP32-5001 shall apply.

4. GENERAL REQUIREMENTS FOR CERTIFICATION

- 4.1 The process of application of applicant/client, product sampling, fees and condition for issuance of the Type 1 certificate of conformity shall be in line with the related provisions in the general rule and the standard specifications.
- 4.2 Sampling and Testing
- 4.2.1 For detailed sampling procedure - Refer to related provisions in the general rules of the scheme.
- 4.2.2 Based on the defined batch and the tests to be carried out as per clause [4.2.4], a “Sampling and testing plan” shall be prepared that will give details of the number of samples and the tests to be carried out on each selected sample. The applicant for certification shall agree to the sampling and testing plan.
- 4.2.3 The sampling and testing plan shall take guidance from DM-DCLD-RD-DP32-5003 (IC) “Guidance for preparing sampling and testing plan”; and shall be prepared in such manner that will provide highest confidence that the sample represents the entire population of product being certified.

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4.2.4 Test(s) to be carried out on each sample (The test shall be carried out at an independent laboratory, preferably at Dubai Central Laboratory Department DCLD):

S/N	Properties to be Determined	Test Method	Requirements as per REG
1	Volatile Organic Compounds (VOC)	SCAQMD 304-91 or any equivalent test method	As per Clause 404.02 referring to the values given in AL SA'FAT Practice Guide (Annex A)

5. ISSUANCE OF TYPE 1 CERTIFICATE OF CONFORMITY

5.1 The COC shall be issued based on the related provisions in the general rules.

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Annex A – The acceptable maximum VOC limits

Table: 404.02 (1) - Maximum VOC Limits of Adhesives and Sealants

Maximum VOC Limits - Grams per litre (g/l) less water			
Architectural Applications		Specialty Applications	
Indoor Carpet Adhesives	50	PVC Welding	510
Carpet Pad Adhesives	50	CPVC Welding	490
Wood Flooring Adhesives	100	ABS Welding	325
Rubber Floor Adhesives	60	Plastic Cement Welding	250
Subfloor Adhesives	50	Adhesive Primer for Plastic	550
Ceramic Tile Adhesives	65	Contact Adhesive	80
VCR & Asphalt Adhesives	50	Special Purpose Contact Adhesive	250
Drywall & Panel Adhesives	50	Structural Wood Member Adhesive	140
Cove Base Adhesives	50	Sheet Applied Rubber Lining Operations	850
Multipurpose Construction Adhesives	70	Top & Trim Adhesive	250
Structural Glazing Adhesives	100		
Substrate Specific Applications		Sealants	
Metal to Metal	30	Architectural	250
Plastic Foams	50	Non-Membrane Roof	300
Porous Materials (except wood)	50	Roadway	250
Wood	30	Single-Ply Roof Membrane	450
Fiberglass	80	Other	420
		Sealant Primers	
		Architectural Non-Porous	250
		Architectural Porous	775
		Other	750

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