



ALSEAL MARKETING SDN. BHD. (625140-D)

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GST No.: 001625505792

Our reference: 06/C18/LTR/Y244

6th March 2018

Dear Valued Customer / Business Partners,

RE: “ALSEAL” AS-5820 Universal Vinyl Adhesive - Low-VOC Compliant

This is to confirm that the volatile organic compound (VOC) content for **“ALSEAL” AS-5820 Universal Vinyl Adhesive** has been tested by an independent third-party testing lab. The VOC content determination was conducted as per the requirement of South Coast Air Quality Management District (SCAQMD) rule 1168.

SCAQMD rule 1168 states that USEPA Method 24 (Determination of Volatile Matter Content, Water Content, Density Volume Solids, and Weight Solids of Surface Coating) shall be used to determine the VOC content of adhesives and sealants. This reference method is **widely accepted worldwide** for the VOC content determination.

VOC Determination Method	Maximum limit	Results	Report no.
USEPA Method 24 and SCAQMD Method 304-91	50 g/L (Subfloor adhesive)	28.50 g/L	CCN17080071H03-0

Conclusion

Based on the results shown above, AS-5820 is able to meet the **low-VOC subfloor adhesive** requirement.

With the low VOC feature, the use of AS-5820 could contribute to **Leadership in Energy and Environmental Design (LEED)** credits under the **IEQc4.1: Low-Emitting Materials - Adhesives and Sealants** credit category. For Malaysian market, AS-5820 could contribute to the **Green Building Index (GBI)** credits.

Should you require further information concerning the above product, please do not hesitate to contact us.

Thank you.

Yours sincerely,
For Alseal Marketing Sdn. Bhd.

Prepared by: Yap Wai Hoong
(R&D Chemist)

Verified by: Alex Ng
(Technical Manager)



CERTIFICATE OF ANALYSIS

ALSEAL MARKETING SDN. BHD.	Certificate No	: CCN17080071H03-0
Lot 2291, Jalan Kampung Baru,	Sample Received Date	: 07-Aug-2017
Kg. Baru Sungai Buloh, 47000 Selangor DE.	Complete Analysis Date	: 17-Aug-2017
	Date Issued	: 17-Aug-2017

Tel : +603-6157 9698 Fax :
Attn :

Sample Description : One sample of sealant product.
Brand: Alseal
Product Name: Universal Vinyl Adhesive
Batch No.: AS-5820 (11091/F17)

Analysis results :

PARAMETER	ANALYSIS RESULTS	UNIT	STANDARD METHOD / TECHNIQUE / EQUIPMENT USED
VOC	28.50	g/L	USEPA Test method 24 and SCAQMD Method 304-91

ND denotes not detected

(< **Numeric number**) denotes detection limits

Remark : -



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L/1828/6037/11