



ALSEAL MARKETING SDN. BHD. (625140-D)

LOT PT 2291, JALAN KAMPUNG BARU, KAMPUNG BARU SUNGAI BULOH,
47000 SUNGAI BULOH, SELANGOR.

TEL: 603-6157 9698, 603-6157 6398

FAX: 603-6157 8002

EMAIL: Info@alsealmarketing.com

WEBSITE: <http://www.alsealmarketing.com>

GST No.: 001625505792

Our reference: 09/D18/LTR/Y251

09 April 2018

Dear Valued Customer / Business Partners,

RE: "ALSEAL" AS-4030 MS Flooring Adhesive - Low-VOC Compliant

This is to confirm that the volatile organic compound (VOC) content for **"ALSEAL" AS-4030 MS Flooring 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 under SCAQMD Rule 1168	< 100 g/L (Wood Flooring Adhesive)	9.49 g/L	CCN18040004H01-0

Conclusion

Based on the results shown above, AS-4030 is able to meet the **low-VOC wood flooring adhesive** requirement.

With the low VOC feature, the use of AS-4030 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-4030 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.
Lot 2291, Jalan Kampung Baru,
Kg Baru Sungai Buloh,
47000, Selangor DE.
Tel : +603-6157 9698

Certificate No : CCN18040004H03-0
Sample Received Date : 02-Apr-2018
Complete Analysis Date : 05-Apr-2018
Date Issued : 05-Apr-2018

Sample Description : Product Name: MS Flooring Adhesive
Product Code: AS-4030
Brand: Alseal

Analysis Results :

PARAMETER	ANALYSIS RESULTS	UNIT	STANDARD METHOD / TECHNIQUE / EQUIPMENT USED
VOC	9.49	g/L	USEPA method 24 under SCAQMD Rule 1168 (Wood Flooring Adhesive, <100g/L)

ND denotes not detected (< *Numeric number*) denotes detection limits

Remark : -



Cheng Pui Wah
Senior Chemist
B.Sc.(Hons),
L/1828/6037/11