

FUGRO TECHNICAL SERVICES LIMITED

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MaterialLab

Report No. : 081976CH81101(1)



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Test Report on Analysis of Paint

Information Supplied by Client

Client : Master Proofer Co. Ltd.

Client's address : Flat I, 8/F, On Ho Industrial Building, 17-19 Shing Wan Road,
Tai Wai, Shatin, New Territories, Hong Kong

Project : VOC Test

Sample description : One sample of Labond Thanecoat W302

Sample identification : (P08-17: Non-exposed Roof Coating)

Test required : VOC content for multicomponent coating

Laboratory Information

Lab sample I.D. : CH81101/2

Date of receipt of sample : 28/08/2008

Date test completed : 12/09/2008

Test method used : USEPA Method 24 & SCAQMD Method 303-91

Calculated based on results of

- a) Volatile content – USEPA Method 24 Section 11.2.2 & ASTM D2369-98
- b) Water content – USEPA Method 24 Section 11.2.3 & ASTM D4017-96a
- c) Coating density – USEPA Method 24 Section 11.2.4 & ASTM D1475-96
- d) Exempted compounds – SCAQMD Method 303-91

Mixing ratio : 1 part of Component A to 4 parts of Component B by weight

Note : This report refers only to the sample(s) tested.

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Results :

	Result (after mixed)
Volatile content (W_v), %wt	7.12
Water content (W_w), %wt	0.40
Exempted compound (W_{ex}), %wt	0
Coating density (D_c) @ 25°C, g/ml	1.393
VOC content, g/L	94

Note:

Equation for calculation of VOC:

$$\begin{aligned} \text{VOC} &= (W_a - W_b - W_c - W_d) / (V_e - V_f - V_g) \\ &= (W_a - W_b - W_c) / (V_e) \\ &= [(W_a / W) - (W_b / W) - (W_c / W)] * (W / V_e) \\ &= [(W_v - W_w - W_{ex}) / 100] * (D_c * 1000) = (W_v - W_w - W_{ex}) * D_c * 10 \end{aligned}$$

where

W_a is weight of volatile compounds in grams (per unit of mixed sample)

W_b is weight of water in grams (per unit of mixed sample)

W_c is weight of exempt compounds in grams (per unit of mixed sample)

W_d is weight of VOCs in grams of any colourant added to tint base (per unit of mixed sample) and is taken as zero

W is weight of paint material in grams (per unit of mixed sample)

V_e is volume of paint material in litres (per unit of mixed sample)

V_f is volume of water in litres (per unit of mixed sample) and is taken as zero

V_g is volume of exempt compounds in litres (per unit of mixed sample) and is taken as zero

Supervised by : K.F. Wong

Certified by : 

Approved Signatory: HO Kin Man, John
Manager – Chemical & Environmental

Date : 18/19/2008

Note : This report refers only to the sample(s) tested.