

FUGRO TECHNICAL SERVICES LIMITED

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MaterialLab

Report No. : 181004EN180628(5)



Page 1 of 2

Test Report on Analysis of Paint

Information Supplied by Client

Client : Hong Kong Niceview International Ltd.
Client's address : Flat H, 21/F, Golden Dragon IND. CTR., Block III,
172-180 Tai Lin Pak Road, Kwai Chung, N.T.
Project : HKGBC Green Building Product Labelling Scheme
Sample description : Niceview Exterior Paint
Sample identification : -
Test required : VOC content

Laboratory Information

Lab sample I.D. : EN180628/1
Date of receipt of sample : 10/03/2018
Date test completed : 22/03/2018
Test method used : USEPA Method 24

Calculated based on results of

- a) Volatile content – USEPA Method 24 Section 11.3.1 & ASTM D2369-98
- b) Water content – USEPA Method 24 Section 11.3.2 & ASTM D4017-96a
- c) Coating density – USEPA Method 24 Section 11.3.3 & ASTM D1475-96

Dilution ratio : -

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

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Page 2 of 2

Results :

| | Result |
|--|--------|
| Volatile content (W_v), %wt | 38.86 |
| Water content (W_w), %wt | 38.01 |
| Coating density (D_c) @ 25°C, g/ml | 1.507 |
| VOC content, g/L | 13 |

Note:

Equation for calculation of VOC:

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

where

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

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

W_c is weight of exempt compounds in grams (per unit of sample) and is taken as zero

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

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

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

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

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

Supervised by : K.F. Wong

Certified by : 

Approved Signatory : HO Kin Man, John
Manager – Chemistry Department

Date : 8/5/2018

** End of Report **

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