

## FUGRO TECHNICAL SERVICES LIMITED

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# MaterialLab

Report No. : 103470CH103010(2)



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### Test Report on Analysis of Paint

#### Information Supplied by Client

Client : Master Proofer Co. Ltd.

Client's address : Unit I, 8/F, On Ho Ind. Bldg.,  
17-19 Shing Wan Road, Tai Wai, Shatin, N.T.

Project : Material testing

Sample description : One sample of Labond EpoxyGuard F760S Top Coat  
(two-pack system)

Sample identification : -

Test required : VOC content for multicomponent coating

#### Laboratory Information

Lab sample I.D. : CH103010/3

Date of receipt of sample : 26/10/2010

Date test completed : 29/10/2010

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) Coating density – USEPA Method 24 Section 11.2.4 & ASTM D1475-96

Mixing ratio : 5 parts of Part A to 1 part of Part B by weight

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

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## Results :

	Result (after mixing)
Volatile content ( $W_v$ ), %wt	8.62
Coating density ( $D_c$ ) @ 25°C, g/ml	1.561
VOC content, g/L	135

### Note:

Equation for calculation of VOC:

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

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) and is taken as zero

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

$W_d$  is weight of VOC<sub>s</sub> 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 :           5/11/2020          

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