



香 港 標 準 及 檢 定 中 心  
**The Hong Kong Standards and Testing Centre Ltd.**

Date : 2004-08-16

**TEST REPORT**

Page 1 of 2

No. : HC154541

**Applicant (Code:MAP007)** : Master Proofer Co Ltd  
Unit I 8/F On Ho Ind Bldg  
17-19 Shing Wan Rd  
Tai Wai Shatin NT

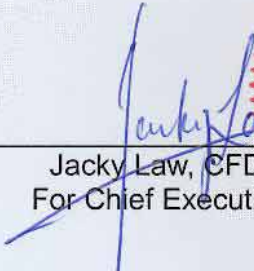
**Description of Samples** : One submitted sample said to be LABond Flexcolour P555 External Facade Paint (With Insecticide) (立康牌 P555 戶外專用色彩漆油(含蚊蟲剋添加劑)).

**Date Samples Received** : 2004-08-06

**Date Tested** : 2004-08-11 to 2004-08-13

**Investigation Requested** : US FDA Food Contact Article test in accordance with 21 CFR 175.300  
- Total extractable matter in distilled water at 120°F for 24 hours  
- Total extractable matter in 8% alcohol at 150°F for 2 hours  
- Total extractable matter in n-heptane at 70°F for 30 minutes

**Conclusions** : The test results of the submitted sample **complied** with the FDA specifications in accordance with 21 CFR 175.300 for resinous and polymeric coatings used in articles that contact food.

  
Jacky Law, CFD  
For Chief Executive



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**Method(s) Used:**

Ref. 21 CFR 175.300

**Test Results:**

Total extractable matter	Results	Limit	Conclusion
- in distilled water	<0.1 mg/in <sup>2</sup>	18 mg/in <sup>2</sup>	Pass
- in 8% alcohol	0.2 mg/in <sup>2</sup>	18 mg/in <sup>2</sup>	Pass
- in n-heptane	0.3 mg/in <sup>2</sup>	18 mg/in <sup>2</sup>	Pass

Notes: < denotes less than  
mg/in<sup>2</sup> denotes milligram per square inch

\*\*\*\*\* End of Test Report \*\*\*\*\*



# 检 验 报 告

## TEST REPORT




广州市产品质量监督检验所  
Guangzhou Products Quality Supervision & Testing Institute





广州市产品质量监督检验所  
检 验 报 告

第 1 页 共 2 页

产 品 名 称 (型号/规格/商标/等级)	LABond专业工程用外墙环保耐候色彩涂料		生产日期 编号或批号	—
	立康牌 P555		抽送样单号	165400
受检单位	—		检验类别	评定检验
委托单位	香港万宝行国际有限公司		样品数量	1.5L
生产单位	香港万宝行国际有限公司		抽样基数	—
抽样地点	—		抽(送)样日期	2003年11月03日
来样方式	委托单位送样		报告编制日期	2003年11月17日
检验依据	GB/T9755-2001《合成树脂乳液外墙涂料》			
样品状况	正常			
检测环境说明	按标准要求			
检 验 结 论	检验项目符合GB/T9755-2001标准(一等品)要求。  <div style="text-align: right;">  <p>2003年11月17日</p> <p>复印报告未盖红色“检验专用章”无效</p> </div>			
备 注	—			

批准:

黄绳纬

编制:

侯向永

## 广州市产品质量监督检验所

## 检验结果

编号: 165400

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序号	检验项目	单位	标准要求	检验结果	单项评价
			一等品	——	
1	容器中的状态	——	无硬块, 搅拌后呈均匀状态	符合标准要求	合格
2	施工性	——	刷涂二道无障碍	符合标准要求	合格
3	低温稳定性	——	不变质	无硬块、凝絮及分离现象	合格
4	干燥时间 (表干)	h	≤2	2	合格
5	涂膜外观	——	正常	无针孔和流挂, 涂膜均匀	合格
6	对比率 (白色和浅色)	——	≥0.90	0.94 (白色)	合格
7	耐水性	——	96h无异常	96h未出现起泡、掉粉、明显变色等涂膜病态现象	合格
8	耐碱性	——	48h无异常	48h未出现起泡、掉粉、明显变色等涂膜病态现象	合格
9	耐洗刷性	次	≥1000	3000次涂层不露底	合格
10	涂层耐温变性	——	5次循环, 无异常	未出现粉化、开裂、起泡、剥落、明显变色等涂膜病态现象	合格
11	耐沾污性 (白色和浅色)	%	≤15	14	合格

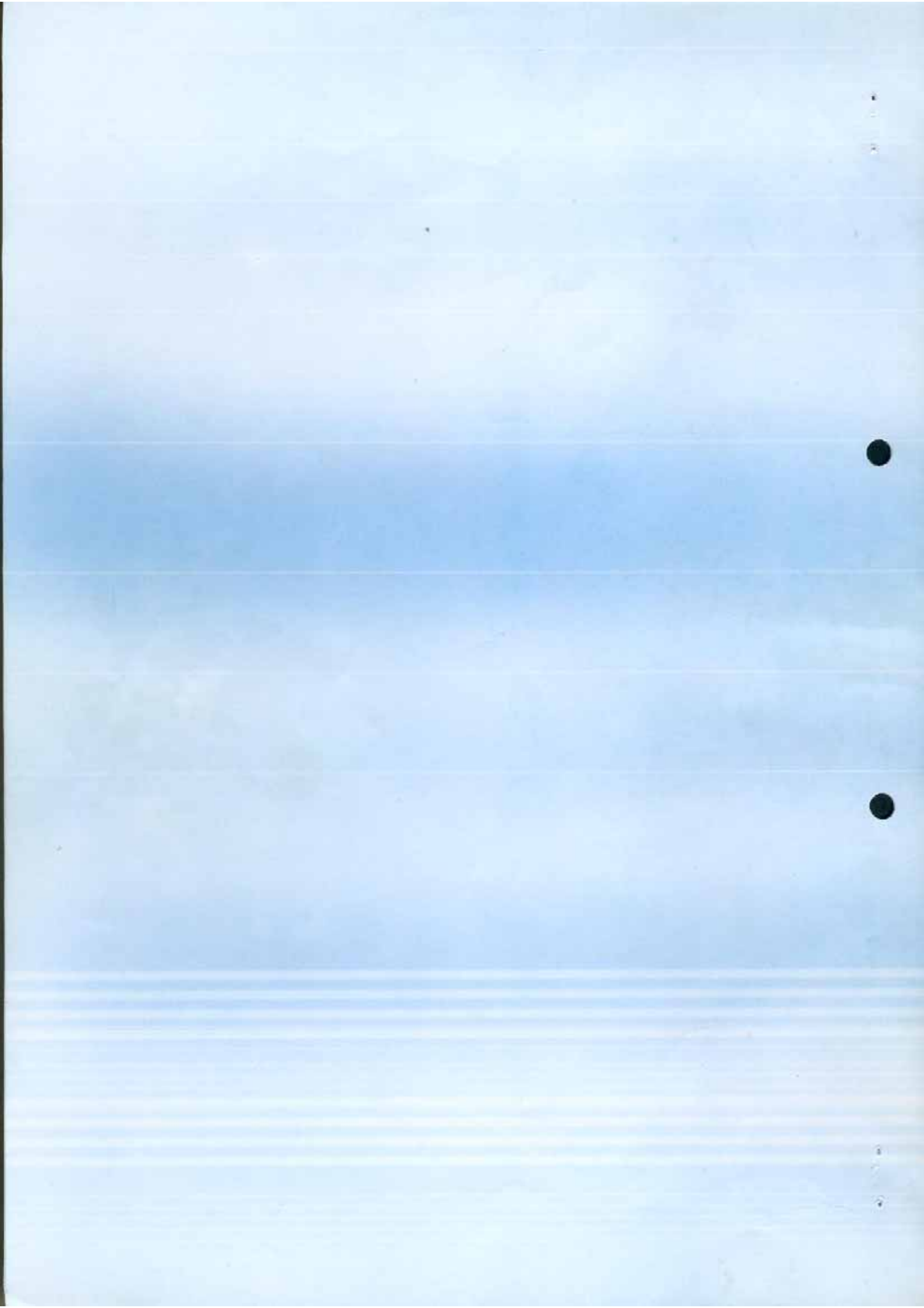
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# FUGRO TECHNICAL SERVICES LIMITED

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## MaterialLab

Report No. : 060186CH60121



Page 1 of 1

### Test Report on Analysis of Paint

#### Information Supplied by Client

Client : Master Proofer Company Ltd.  
Client's address : Unit I, 8/F, On Ho Industrial Building, 17-19 Shing Wan Road,  
Tai Wai, Shatin, New Territories  
Project : Test on Paint Product  
Sample description : One sample of Labond Flexcolour P555  
Sample identification : TCH/P555/250.3  
Test required : Volatile organic compound (VOC) content

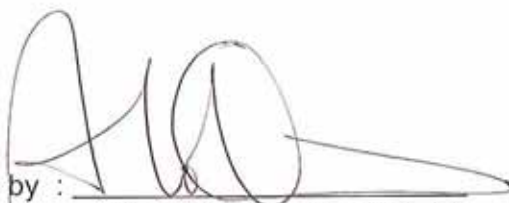
#### Laboratory Information

Lab. Sample I.D. : CH60121/1  
Date of receipt of sample : 24/01/2006  
Date test completed : 06/02/2006  
Test method used : BS EN ISO 11890-1 : 2001

#### Results :

Testing item	Result
Volatile organic compound content (Less water and exempt volatile compounds), g/L	56

Supervised by :                     K.F. Wong                    

Certified by :   
Approved Signatory : K.M. Ho

Date :                     16/2/2006                    

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



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## MaterialLab

Report No. : 060186CH60121(3)



Page 1 of 1

### Test Report on Analysis of Paint

#### Information Supplied by Client

Client : Master Proofer Company Ltd.  
Client's address : Unit I, 8/F, On Ho Industrial Building, 17-19 Shing Wan Road,  
Tai Wai, Shatin, New Territories  
Project : Test on Paint Product  
Sample description : One sample of Labond Flexcolour P555  
Sample identification : TCH/P555/250.3  
Test required : Specular gloss (85°)

#### Laboratory Information

Lab. Sample I.D. : CH60121/1  
Date of receipt of sample : 24/01/2006  
Date test completed : 26/01/2006  
Test method used : ASTM D523-89 (1994)

#### Results :

Specular gloss (85°)	Result
Reading 1	5.7
Reading 2	6.0
Reading 3	5.8
Mean reading	6

#### Remarks :

1. Thinning ratio – No dilution
2. Single coating of paint was applied manually to solvent-cleaned glass panel using a block applicator with a gap of 100µm for the test.

Supervised by :                     K.F. Wong                    

Certified by :   
Approved Signatory : K.M. Ho

Date :                     16/2/2006                    

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



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**MaterialLab**

Report No. : 060186CH60184



Page 1 of 1

**Test Report on Analysis of Paint****Information Supplied by Client**

Client : Master Proofer Co., Ltd.  
Client's address : Unit I, 8/F, On Ho Industrial Building, 17-19 Shing Wan Road,  
Tai Wai, Shatin, New Territories  
Project : Tests on Paint Product  
Sample description : One sample of Labond Flexcolour P555  
Sample identification : TCH/P555/250.3  
Test required : Preliminary Examination of Paint

**Laboratory Information**

Lab. Sample I.D. : CH60184/1  
Date of receipt of sample : 24/01/2006  
Date test completed : 25/01/2006  
Test method used : BS 3900 : A2 : 1993  
ISO 1513 :1992

**Results :**

Condition in container	Result
(i) Ullage	43%
(ii) Surface skin	No
(iii) Consistency	Thixotropic
(iv) Separation into layers	No
(v) Setting / Sediment	No
(vi) Extraneous matter / Visible impurities	No

Supervised by :           K.F. Wong          Certified by :   
Approved Signatory : K.M. HoDate :           25/1/2006          *Note : This report refers only to the sample(s) tested.*

# FUGRO TECHNICAL SERVICES LIMITED

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## MaterialLab

Report No. : 060186CH60184(1)



Page 1 of 1

### Test Report on Analysis of Paint

#### Information Supplied by Client

Client : Master Proofer Co., Ltd.  
Client's address : Unit I, 8/F, On Ho Industrial Building, 17-19 Shing Wan Road,  
Tai Wai, Shatin, New Territories  
Project : Tests on Paint Product  
Sample description : One sample of Labond Flexcolour P555  
Sample identification : TCH/P555/250.3  
Test required : Through dry time

#### Laboratory Information

Lab. Sample I.D. : CH60184/1  
Date of receipt of sample : 24/01/2006  
Date test completed : 11/02/2006  
Test method used : BS 3900 : C3 : 1990

#### Results :

	Result
Through dry time, mins.	30
Average wet film thickness of test specimen, $\mu\text{m}$	50-55
Average dry film thickness of test specimen, $\mu\text{m}$	24

#### Remarks :

1. Thinning Ratio – 100 parts of paint to 5 parts of water by volume.
2. Single coating of paint was applied manually to chromated aluminium panel using a 50 $\mu\text{m}$  bar for the test.
3. The wet film thickness was measured with reference to BS 3900 : C5 : 1997 Method 1A using a comb gauge.
4. The dry film thickness was measured with reference to BS 3900 : C5 : 1997 Method 7, non-destructive instrumental method, using Sheen SS-1000 Digital Coating Thickness Meter.
5. The coated test panel was allowed to dry in a vertical position with free circulation of air, but shielded from draughts and direct sunlight, at temperature of  $23 \pm 2$  °C and  $50 \pm 5\%$  R.H.

Supervised by :           K.F. Wong          

Certified by :   
Approved Signatory : K.M. Ho

Date :           11/2/2006          

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

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# MaterialLab

Report No. : 060186CH60184(2)



Page 1 of 1

## Test Report on Analysis of Paint

### Information Supplied by Client

Client : Master Proofer Co., Ltd.  
Client's address : Unit I, 8/F, On Ho Industrial Building, 17-19 Shing Wan Road,  
Tai Wai, Shatin, New Territories  
Project : Tests on Paint Product  
Sample description : One sample of Labond Flexcolour P555  
Sample identification : TCH/P555/250.3  
Test required : Fineness of grind

### Laboratory Information

Lab. Sample I.D. : CH60184/1  
Date of receipt of sample : 24/01/2006  
Date test completed : 09/02/2006  
Test method used : BS 3900 : C6 : 2000  
ISO 1524 : 2000

### Results :

Fineness of grind	Result
Measurement 1, to the nearest 5 $\mu\text{m}$	30
Measurement 2, to the nearest 5 $\mu\text{m}$	30
Measurement 3, to the nearest 5 $\mu\text{m}$	30
Mean, to the nearest 5 $\mu\text{m}$	30

Remarks : 1. Thinning ratio – No dilution  
2. A 100 $\mu\text{m}$ -gauge is used for the test.

Supervised by :           K.F. Wong          

Certified by :   
Approved Signatory : K.M. Ho

Date :           20/2/2006          

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

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**MaterialLab**

Report No. : 060186CH60184(3)



Page 1 of 1

**Test Report on Analysis of Paint****Information Supplied by Client**

Client : Master Proofer Co., Ltd.  
Client's address : Unit I, 8/F, On Ho Industrial Building, 17-19 Shing Wan Road,  
Tai Wai, Shatin, New Territories  
Project : Tests on Paint Product  
Sample description : One sample of Labond Flexcolour P555  
Sample identification : TCH/P555/250.3  
Test required : Hiding power

**Laboratory Information**

Lab. Sample I.D. : CH60184/1  
Date of receipt of sample : 24/01/2006  
Date test completed : 10/02/2006  
Test method used : BS 3900 : D4 : 1974 (1989)

**Results :**

Hiding power (Contrast ratio)	Result
Chart 1	68.4
Chart 2	69.3
Chart 3	68.9
Mean contrast ratio	69
Average wet film thickness of test specimen, $\mu\text{m}$	50 – 55
Average dry film thickness of test specimen, $\mu\text{m}$	21

**Remarks :**

1. Thinning Ratio – 100 parts of paint to 5 parts of water by volume.
2. Single coating of paint was applied manually to hiding power chart (Letena Form 2A) using a 50 $\mu\text{m}$  block applicator for the test.
3. The wet film thickness was measured with reference to BS 3900 : C5 : 1997 Method 1A using a comb gauge.
4. The dry film thickness was measured with reference to BS 3900 : C5 : 1997 Method 7, non-destructive instrumental method.
5. The coated test chart was dried at  $23 \pm 2$  °C and  $50 \pm 5\%$  R.H. for 24 hours before testing.

Supervised by :           K.F. Wong          
 Certified by  Approved Signatory : K.M. Ho
Date :           22/2/2006          *Note : This report refers only to the sample(s) tested.*

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# MaterialLab

Report No. : 060186CH60184(4)



Page 1 of 1

## Test Report on Analysis of Paint

### Information Supplied by Client

Client : Master Proofer Co., Ltd.  
Client's address : Unit I, 8/F, On Ho Industrial Building, 17-19 Shing Wan Road,  
Tai Wai, Shatin, New Territories  
Project : Tests on Paint Product  
Sample description : One sample of Labond Flexcolour P555  
Sample identification : TCH/P555/250.3  
Test required : Consistency Determination Using Stormer Viscometer

### Laboratory Information

Lab. Sample I.D. : CH60184/1  
Date of receipt of sample : 24/01/2006  
Date test completed : 09/02/2006  
Test method used : ATSM D562 – 81 (Reapproved 1997) Procedure B

### Results :

Viscosity		Result
Load, to the nearest 5 g	Trial 1	630
	Trial 2	630
	Average	630
Kerbs unit (from average load)		121
Temperature of the sample during test, °C		25 ± 0.2

Remark : Thinning Ratio – 100 parts of paint to 5 parts of water by volume.

Supervised by :           K.F. Wong          

Certified by :   
Approved Signatory : K.M. Ho

Date :           22/2/2006          

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