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June 13, 2006

TPR<sup>2</sup> Corporation  
161 Interstate Ln  
Waterbury, CT 06705

Att: **Mr. Rick Barone**  
**Vice President of Marketing**

Re: **DL-14851**  
**Via FAX 203-756-8779**

### **OBJECTIVES**

1. To test an interior flat latex paint to the requirements stated in State of Connecticut, Dept. of Admin. Services, Dept. of Purchases – MS#: G8A.
2. To determine the hiding power and washability properties in accordance with Green Seal Standard Paints (GS-11)

### **PRODUCT TESTED**

The coating was submitted by TPR<sup>2</sup> Corporation and identified as *IP-10 Type B*.

### **PROCEDURES**

The following test procedures as stated in State of Connecticut, Dept. of Admin. Services, Dept. of Purchases – MS#: G8A were conducted.

<b><u>Test Procedure</u></b>	<b><u>Test Method</u></b>
Viscosity, Stormer viscometer	ASTM D 562
Fineness of Grind	ASTM D 1210
60° Specular Gloss	ASTM D 523
Dry Opacity at 530 ft <sup>2</sup> /gal	ASTM D 2805 modified
Flexibility (3-mils wet film thickness)	FTMS 141, Method 6221
Color (Percent Reflectance)	ASTM E 1347
Scrubability (pass 200 cycles)	ASTM D 2486
Freeze Thaw Resistance (pass 5-cycles)	ASTM 2243
Brushability	FTMS 141 Method 4321
Sagging Resistance	FTMS 141 Method 4494

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### PROCEDURES (cont.)

The following test procedures as stated Green Seal Inc. Standard Paints (GS-11) were conducted.

#### Test Procedure

Hiding Power (Opacity) at 400 ft<sup>2</sup>/gal  
Reflectance

Washability (Stain Removal)

#### Test Method

ASTM D 2805 modified  
ASTM E 1347

ASTM D 4828  
Mechanical Method

In addition, the adhesion of the coating, when applied, to steel was determined in accordance with ASTM Test Method D 3359, Method B.

### TEST RESULTS

The test results can be found in the Appendix.

The ASTM D 4828, "Practical Washability of Organic Coatings" rating scale refers to the following characteristics:

#### **Condition of Stain or Soilant**

- 0 - No change from original intensity (depth) of stain or soilant
- 3 - Slight change from original, but readily visible
- 5 - Moderate change from original, slightly visible
- 7 - Large change from original, barely visible
- 10 - All soil and stain removed



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### CONCLUSIONS

The following conclusions may be drawn from this evaluation.

1. The submitted paint sample of TPR2 Corporation, *IP-10, Type B*, conforms to the requirements stated in State of Connecticut, Dept. of Admin. Services, Dept. of Purchases - MS#: G8A for Paint, Interior - Latex, Flat for Viscosity, 60° Specular Gloss, Flexibility, Color-Reflectance, Freeze Thaw Resistance, Brushability and Sagging Resistance.
2. The paint sample did not comply with the state requirements for Fineness of Grind and Dry Opacity,
3. The submitted paint sample of TPR2 Corporation, *IP-10, Type B*, conforms to the requirements stated in Green Seal, Inc., Standard Paints (GS-121) for Washability (Stain Removal) except with ball point pen.
4. The paint sample did not comply with the Green Seal requirement for Hiding Power (Opacity).
5. The coating exhibited satisfactory adhesion to a steel substrate.

DL Labs, Inc.

  
Mario Lazaro, Jr.  
Assistant Technical Director

cc: T. J. Silva



TPR<sup>2</sup> Corporation  
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## APPENDIX

### TEST RESULTS

**TPR<sup>2</sup> Corporation, IP-10 Type B  
 Paint, Interior - Latex, Flat  
 State of Connecticut, Dept. of Admin. Services, Dept. of Purchases - MS#: G8A**

<u>Test Procedure</u>	<u>Requirement</u>	<u>Result</u>
Viscosity, Stormer	85 - 105 KU	94 KU
Fineness of Grind	2.5 mil or 75 $\mu$ m	3 $\frac{3}{4}$ mils * 94 $\mu$ m
60° Specular Gloss	6 max	3
Dry Opacity	0.95 min. at 530 ft <sup>2</sup> /gal	0.71 *
Flexibility	No cracking	Pass $\frac{1}{2}$ -inch
Color (Percent Reflectance)	84.0% min. at 530 ft <sup>2</sup> /gal	87.0%
Scrubability	Pass 200	620 cycles
Freeze Thaw Resistance After 5 cycles	Pass 5-cycles	Passes 96KU
Brushability	Meet standard	
Ease of Brushing		Easy
Brush drag		None
Flow and leveling		Fair
Brush marks		Fair
Lap marks		Fair
Sagging Resistance	6-mils min.	>12-mils

\* - Does not comply with State of Connecticut, MS#: G8A, requirement.



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APPENDIX (cont.)

TEST RESULTS

TPR<sup>2</sup> Corporation, IP-10 Type B  
 Green Seal, Inc. Standard Paints (GS-11)

<u>Test Procedure</u>	<u>Requirement</u>	<u>Result</u>
3.1.2 Hiding Power (Opacity) At 400 ft <sup>2</sup> /gal	0.95 min.	0.76 *
Reflectance	80% min.	86.1%
Washability (Stain Removal)		
Wash cycles to soilant removal		50
Pencil		34
Crayon, red		>100
Ball point pen, blue		2
Waterbased marking pen, blue		>100
Lipstick, red		>100
ASTM D 3450 grease stain, black		>100
Condition of stain after removal	Flats 5 min. rating	
Pencil		10
Crayon, red		10
Ball point pen, blue		3 *
Waterbased marking pen, blue		10
Lipstick, red		5
ASTM D 3450 grease stain, black		5
	Average Rating	7

\* - Does not comply with GS-11 requirement

Adhesion, Cross-cut Tape - ASTM D 3359, Method B  
 Steel  
 Percent coating adhesion

4B  
 95%