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Fine Paints of Europe
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President

Re: DL-15557
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OBJECTIVE

To evaluate the performance properties and to substantiate the product claims of Fine Paints of Europe's ***Eurolux Housepaint*** for use on exterior masonry.

PRODUCT TESTED

Eurolux Housepaint, Advanced Water-Thinnable Acrylic Exterior Paint,
White / Base White, Lot: 07271233

PRODUCT CLAIMS

The performance properties listed below were evaluated based on the product claims stated on Fine Paints of Europe's web site for the ***Eurolux Housepaint*** product.

1. Durable
2. Application ease
3. Weather resistant
4. Flexible
5. Easy clean up
6. Enhanced adhesion
7. Opacity
8. Adhesion through countless cycles of expansion and contraction
9. Self priming
10. Resistant to blistering, chipping and peeling
11. Tight non-chalky film
12. Mildew resistant



PROCEDURES

The *Eurolux Housepaint* was evaluated as a two coat application. Each coat was applied by brush at 320 square feet per 2½ Liters (485 ft²/gal) to concrete test substrates with an overnight dry between coats. The coated masonry test substrates were allowed to dry seven-days at standard conditions before testing using the following test procedures.

<u>Test Procedure</u>	<u>Test Method</u>
Application ease, clean-up by brush and roller	Subjective
Accelerated Weathering Resistance	ASTM G 154, 500-hours UV-B
Thermal cycling, on concrete	(a)
Adhesion, one coat / two coat	ASTM D 3359
Opacity, 320 and 230 ft ² /2½ L	ASTM D 2805
Humidity Resistance	ASTM D 4585, 250-hours
Mold and Mildew Resistance	ASTM D 3273
Color Change, instrumental	ASTM D 2244
Color Change, visual	ASTM D 1724
Reflectance	ASTM E 1347
Gloss / Sheen	ASTM D 523
Blistering	ASTM D 714
Chalking	ASTM D 4214
Checking	ASTM D 660
Cracking	ASTM D 661
Erosion	ASTM D 662

a) Thermal Cycling Test - Coated masonry test substrates were subjected to 25 cycles composed of 30-minutes at -10°F followed immediately by 1-hour at 125°F, then followed by 30-minutes at ambient per cycle. The coating was evaluated for changes in gloss, color, cracking, checking, loss of adhesion and any other detrimental defects



TEST RESULTS

The test results can be found in the Appendix.

The following ASTM ratings were referenced in this report.

ASTM D 3359, Adhesion, Test Method A, X-cut tape test ratings

- 5A - No peeling or removal of film along incisions
- 4A - Trace peeling or film removal along incisions or at intersection
- 3A - Jagged removal along incisions up to 1.6mm (1/16 in.) on either side
- 2A - Jagged removal along most of incisions up to 3.2mm (1/8 in.) on either side
- 1A - Removal from most of the area of the X incisions under the tape
- 0A - Removal beyond the area of the X incisions

ASTM D 2244, Calculation of Color Difference from Instrumentally Measured Color Coordinates” ratings

CIE L*a*b*, D65 illuminant, 10° Observer

- | | | |
|---|--------------|-------------|
| ΔL^* Lightness / Darkness value differences | + = lighter | - = darker |
| Δa^* Red / Green value differences | + = redder | - = greener |
| Δb^* Yellow / Blue value differences | + = yellower | - = bluer |
| ΔE^* Total color difference | | |

A total Delta E color difference (ΔE) of 1.75 is generally accepted as the color difference value at which a color change is barely detectible by a trained colorist.

ASTM D 3274 Fungal, Mold, Mildew and Dirt Disfigurement ratings as depicted in the ASTM pictorial standard

- 10 - No fungal growth
- 9 - Trace of fungal growth
- 8 - Very slight fungal growth
- 6 - Slight fungal growth
- 4 - Moderate fungal growth
- 2 - Considerable fungal growth
- 0 - Severe fungal growth



CONCLUSIONS

The following conclusions may be drawn from this evaluation.

1. Fine Paints of Europe's ***Eurolux Housepaint*** exhibited excellent performance properties in agreement with Fine Paints of Europe's product claims as follows.

Durable

The ***Eurolux Housepaint*** demonstrated excellent durability when subjected to the adverse effects of accelerated weathering, thermal cycling and humidity resistance.

Application Ease and Easy Clean-Up

The coating applied easily using a brush or roller. Brush drag was not observed. Application equipment and surroundings were easily cleaned with the use of plain tap water as long as prolong drying of the coating was not allowed.

Weather Resistant

The ***Eurolux Housepaint*** exhibited excellent accelerated weathering, thermal cycling and humidity resistance. No loss of adhesion, cracking or significant change in color and gloss were observed.

Flexible

The coating exhibited excellent flexibility when subjected to 25-cycles of heat and cold thermal cycling.

Enhanced Adhesion

The ***Eurolux Housepaint*** exhibited excellent intercoat and substrate adhesion as observed initially and after exposure to accelerated weathering, thermal cycling and humidity resistance testing.

Opacity

The white ***Eurolux Housepaint*** exhibited satisfactory hiding at 320 square feet per 2½-Liters (485 ft²/gal) and excellent hiding at 230 square feet per 2½ Liters (350 ft²/gal).

Adhesion through countless cycles of expansion and contraction

The ***Eurolux Housepaint*** exhibited excellent one-coat / two-coat intercoat adhesion in addition to substrate adhesion as observed initially and after exposure to accelerated weathering and thermal cycling testing.



CONCLUSIONS (cont.)

Self priming

The coating exhibited excellent intercoat (self priming) and substrate adhesion to concrete and wood substrates. No loss of adhesion to the substrate or between the first coat and second coat was observed.

Resistant to Blistering, Chipping and Peeling

The ***Eurolux Housepaint*** did not exhibit blistering, cracking, checking delamination or loss of adhesion after being subjected to accelerated weathering, thermal cycling and humidity resistance testing.

Tight Non-Chalky Film

The coating did not exhibit chalking associated with polymer degradation after exposure to aggressive UVB ultraviolet light accelerated weathering for 500 hours. In addition, loss of adhesion between the first coat and second coats of ***Eurolux Housepaint*** or to the concrete substrate was not observed.

Mildew Resistant

The ***Eurolux Housepaint*** exhibited very slight fungal growth.

2. Based on this evaluation Fine Paints of Europe's ***Eurolux Housepaint*** proved to be suitable for application to sound and properly prepared masonry surfaces.

DL Labs, Inc.

Mario Lazaro, Jr.
Assistant Technical Director

cc: T. J. Sliva



APPENDIX

TEST RESULTS

EUROLUX HOUSEPAINT – WHITE / WHITE BASE

<u>Test Procedure</u>	<u>Result</u>
Ease of Application	
Brush	Excellent
Roller	Excellent
Accelerated UV-Weathering Resistance	
500 hours UVB exposure	
Color Change, instrumental	
ΔL^*	0.72 lighter
Δa^*	-0.23 greener
Δb^*	3.27 yellower
ΔE^*	3.3
Color Change, visual	Very slight yellowing
Gloss, visual	None
Chalking	None
Cracking	None
Loss of Adhesion	None, 5A
Thermal cycling, on concrete	
After 25-cycles	
Gloss/Sheen change, visual	None
Color change, visual	None
Checking, Cracking	None
Delamination	None
Loss of Adhesion	None, 5A
Adhesion	
Concrete/mortar substrate	
one coat	5A
two coat	5A
Pine wood substrate	
one coat	5A
two coat	5A



APPENDIX

TEST RESULTS (cont.)

EUROLUX HOUSEPAINT – WHITE / WHITE BASE

<u>Test Procedure</u>	<u>Result</u>
Opacity, Percent Hiding	
320 ft ² /2½ L (485 ft ² /gal)	93.8%
230 ft ² /2½ L (350 ft ² /gal)	97.4%
Reflectance	90.8%
Humidity Resistance	
250 hours exposure	
Blistering	None
Gloss/Sheen change	None
Color change	None
Checking, Cracking	None
Delamination	None
Loss of Adhesion	3A, initially 4A, after 4-hours recovery 5A, after overnight recovery
Fungal, Mold and Mildew Resistance	8 ASTM rating (very slight growth)