Eco-House, Inc.*
P. O. Box 220
Station A
Fredericton, NB E3B 4Y9
Canada

Re: DL-14071-R
Via FAX 1-506-366-3577

OBJECTIVE

To determine the water vapor transmission properties of a silicate dispersion paint.

PRODUCT TESTED

The paint was submitted by Eco-House, Inc. for testing and identified as:

Eco-House - #1010 QuartzGuard™, Exterior Silicate Dispersion Paint*

PROCEDURE

The coating was applied to a porous test chart at 6-mils wet film thickness and allowed to dry a minimum of seven days at standard conditions before testing.


* PermaTint® is the sole manufacturer of Eco-House #1010 QuartzGuard, Interior/Exterior Silicate Stains and Paints.

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TEST RESULTS

The Eco-House - #1010 QuartzGuard™, Exterior Silicate Dispersion Paint exhibits the following water vapor transmission properties:

**Water Vapor Transmission Rate - WVT**
32.1 grains/ft²/hr

**Water Vapor Permeance - WVP**
77.5 perms (grains/ft²/hr/inch of Hg)

The dry film thickness of the paint was 5-mils (125µm).

cc: T. J. Sliva

DL Labs, Inc.

Mario Lazaro, Jr.
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Canada

Re: DL-14118-R
Via FAX 506-366-3577

OBJECTIVE

To test the wind driven rain resistance of an exterior silicate wall coating.

PRODUCT TESTED

The coating was submitted by Eco-House, Inc. and identified as:

Eco House - #1010 QuartzGuard, Exterior Silicate Dispersion Paint,*

PROCEDURE

The wind driven rain resistance of the coating was determined in accordance with procedures outlined in ASTM D 6940, "Standard Practice for Resistance to Wind-Driven Rain for Exterior Coatings Applied to Masonry".

The coating was applied to triplicate concrete test surfaces measuring 8 x 16 x 1.5 inches (200 x 405 x 40 mm) in two coats at a wet film thickness of 6-mils per coat. The resulting dry film thickness of the coating was 5-mils (125 microns). An overnight dry was allowed between coats. The coated concrete surfaces were then allowed to cure a minimum of ten-days in a protected shelter exposed to exterior sources of carbon dioxide.

* PermaTint® is the sole manufacturer of Eco-House #1010 QuartzGuard, Interior/Exterior Silicate Stains and Paints.
TEST RESULTS

The #1010 QuartzGuard – Exterior Silicate Dispersion Paint did not exhibit visible water leaks or dampness on the rear uncoated face of the concrete surfaces after a 24 hour exposure to water spray and 5 inches of water pressure, which is the equivalent dynamic pressure at 98 miles per hour wind velocity.

CONCLUSION

While the ASTM test method does not state requirements for wind driven rain resistance, the coating complies with the requirements stated in U. S. Federal Specification TT-C-555B, "Coating, Textured (For Interior and Exterior Masonry Surfaces)" "Qualitative Requirement 3.3.3 - Resistance To Wind Driven Rain", upon which the ASTM Method was derived.

DL Labs, Inc

[Signature]

Thomas J. Silva / Technical Director

cc: M. Lazaro, Jr.