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Physical Testing for: Heritage Research
For Accreditation by: ICC AC-29
Sample ID: Asphalt Emulsion Sample

Final Test Report

Accreditations

AASHTO R18 ISO Guide 25

MIAMI-DADE

ICBO

ISO/IEC 17025

N.E.S. Listed
NER-TL625

CRRC
Accredited Independent Testing Laboratory

Associations

RCI

NRCA
NATIONAL ROOFING CONTRACTORS ASSOCIATION

Roof Coating Manufacurers Association

Date:	January 23, 2006
Sample:	Two one-quart containers labeled WE-1A (MTi-051165) and WE-1B (MTi-051166), received 12-14-05. Two one-pint containers labeled as $CaCl_2$ Breaking Solution (MTi-051167), received 12-16-05.
Testing Provided:	Analysis of Spray-Applied Two part Asphalt Emulsion for compliance with the performance requirements of ICC AC-29 acceptance criteria.
Testing Dates:	December 16, 2005 - January 23, 2006
Sample Selection:	Samples were not independently selected under the requirements for Third Party selection.
Project ID:	TX01J5A

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1.0 Hydrostatic Pressure over Cracks

By: Table 1 of ICC AC-29 (Feb. 2004) - ASTM C 1306

Sample Thickness: 60 ± 5 mils

ICC Requirement: Fifty percent of lowest value achieved

	Sample	Result
Rapid Test	1.	15 psi
	2.	15 psi
	3.	20 psi
	Average:	**16.67 psi**

Result: Asphalt Emulsion meets the requirements of ICC AC-29, Table 1 (Feb. 2004) - ASTM 1306 for Hydrostatic pressure over cracks.

2.0 Low-Temperature Flexibility and Crack Bridging

By: Table 1 of ICC AC-29 (Feb. 2004) - ASTM C836, Section 6.7

Temperature of test: The testing was conducted at -26°C.

ICC Requirement: No Cracking or loss of adhesion

Sample	Result
1	**No cracking or loss of adhesion**
2	**No cracking or loss of adhesion**
3	**No cracking or loss of adhesion**

3.0 Adhesion Strength to Masonry

By: Table 1 of ICC AC-29 (Feb. 2004) - ASTM C836. Section 6.10

Requirement: 1 lbf/in. on surfaces desired

Sample	Result
1.	3.776 lbf/in.
2.	5.643 lbf/in.
3.	4.657 lbf/in.
4.	5.107 lbf/in.
5.	7.618 lbf/in.
Average:	**5.360 lbf/in.**

Result: Asphalt Emulsion meets the requirements of ICC AC-29, Table 1 (ASTM C836, Section 6.10) for adhesion strength to Masonry.

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4.0 Resistance to Water

By: Table 1 of ICC AC-29 (Feb. 2004) - ASTM D2939, Section 15

Requirement: No Blistering or Reemulsification

Sample	Result
1	**No Blistering or Reemulsification**
2	**No Blistering or Reemulsification**
3	**No Blistering or Reemulsification**

Result: Asphalt Emulsion meets the requirements of ICC AC-29, Table 1 (ASTM D2939, Section 15) for resistance to water. This sample showed no signs of reemulsification after 24 hours in water at 77°F.

5.0 Water Vapor Permeance

By: Table 1 of ICC AC-29 (Feb. 2004) - ASTM E96, Water Method

Requirement: Maximum 1 perm

Sample	Result
Average	**0.46 perms**

Result: Asphalt Emulsion meets the requirements of ICC AC-29, Table 1 (ASTM E96, Water Method) for Water Vapor Permeance.

6.0 Extensibility after heat aging

By: Table 1 of ICC AC-29 (Feb. 2004) - ASTM C836, Section 6.12

ICC Requirement: ¼ inch, no cracking

Sample	Result
1	**Pass ¼ inch stretch with no cracking**
2	**Pass ¼ inch stretch with no cracking**
3	**Pass ¼ inch stretch with no cracking**

Result: Asphalt Emulsion meets the requirements of ICC AC-29, Table 1 (ASTM C836, Section 6.12) for extensibility after heat aging. The sample showed signs of cracking after a ¼ inch stretch.

Conclusion: The Asphalt Emulsion sample meets the requirements of ICC AC-29 Table 1 for the acceptance criteria of a below-grade waterproofing material.

Verified by:
David W. Dunn
Laboratory Manager

Tested by:
Timothy J. Stoffer
Laboratory Technician