

Technical Service Report



Revision# 1



Testing Laboratory:

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Customer:

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Project #:

JX21H9A

Quote #:

2019-313

Date of Report:

Thursday, June 4, 2020

PO#:

1010

Abstract:

Analysis of one (1) product in accordance with AC-29 ACCEPTANCE CRITERIA FOR COLD, LIQUID-APPLIED, BELOW-GRADE, EXTERIOR DAMPPROOFING AND WATERPROOFING MATERIALS

MTI#	Description of Material	Receiving Date
MTI-200395	1 five gallon sample labeled: Water Proof	8/22/2019



Results and Conclusion

Test #: 1

Method AC-29

Test/Description: Resistance to Decay Weight Loss per ASTM E154/E154M-08a(2019) sect.13

Test specimens are weighed to a constant mass before soil burial. After the soil burial and incubation period the specimens are cleaned of soil and weighed to a constant mass. The weight loss is determined by the difference in these two weights.

Result: **No Weight Loss**

Requirement Maximum 10% weight loss

Conclusion: **Pass**

Results and Conclusion

Test #: 2

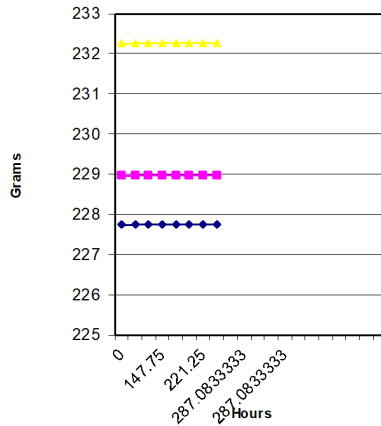
Method: AC-29

Test/Description: Water Vapor Permeance per ASTM E96/E96M-16
 Desiccant Method, procedure A (Upright)

The test dish is filled with desiccant within 1/4 in. [6 mm] of the specimen leaving enough room for shaking of the desiccant. The specimen is attached to the dish and placed in the controlled test chamber. Periodic weighings are taken to provide 8 to 10 data points.

Individual Results

Specimen 1: Permeance- 0.87 ng/Pa.s.m² Perms- 0.015
 Specimen 2: Permeance- 0.98 ng/Pa.s.m² Perms- 0.017
 Specimen 3: Permeance- 1.0 ng/Pa.s.m² Perms- 0.017



Result: Average: Permeance- 0.95 ng/Pa.s.m² Perms- 0.017

Requirement: Maximum 1 perm

Conclusion: Pass

Results and Conclusion

Test #: 3

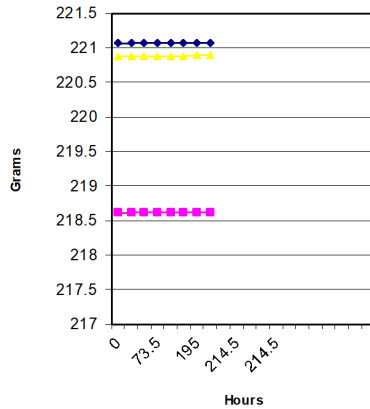
Method: AC-29

Test/Description: Resistance to Decay Water Vapor Permeance per ASTM E96/E96M-16 Desiccant Method, procedure A (Upright)

The test dish is filled with desiccant within 1/4 in. [6 mm] of the specimen leaving enough room for shaking of the desiccant. The specimen is attached to the dish and placed in the controlled test chamber. Periodic weighings are taken to provide 8 to 10 data points.

Individual Results

Specimen 1: Permeance- 1.85 ng/Pa.s.m² Perms- 0.032
 Specimen 2: Permeance- 1.97 ng/Pa.s.m² Perms- 0.035
 Specimen 3: Permeance- 1.47 ng/Pa.s.m² Perms- 0.026



Result: Average: Permeance- 1.76 ng/Pa.s.m² Perms- 0.031

Requirement: Maximum 1 perm

Conclusion: Pass

Results and Conclusion

Test #: 4

Method AC-29

Test/Description: Resistance to Water per ASTM D2939-03
 Panels are prepared in accordance with section 13.2. Panels are dried in a forced draft oven conforming to Specification E145, Type II B for 24 hr at 60±3°C (140±5°F). Panels are then placed in distilled water at 24±3°C (75±5°F) for 24 h.

Result: **No Blistering or reemulsification**

Requirement No Blistering or reemulsification

Conclusion: **Pass**

Test #: 5

Method AC-29

Test/Description: Remain in place during application per ASTM C836/C836M-18
 Specimen prepared by applying two coats. The first coat was applied at 30 wet mils and the specimen was placed upright for 1 hour. A second 30 wet mil coat was applied and the specimen was placed upright for 24 hours.
 Individual film thickness measurements:
 1- 0.0370 in.
 2- 0.0370 in.
 3- 0.0420 in.
 4- 0.0375 in.
 5- 0.0440 in.

Result: **Average: 0.0395 in.**

Requirement As recommended by Manufacturer+ /- 5 mils
 0.0400 Dry

Conclusion: **Pass**



Results and Conclusion

Test #: 6

Method AC-29

Test/Description: Adhesion strength per ASTM C836/C836M-18

Test specimens are prepared by brush coating 60 wet mils onto mortar substrates and imbedding cloth strips per ASTM C794-18. After 7 days the cloth strips are coated again. Cure conditions: 14 days at standard conditions, followed by 7 days at 70±2°C (158±3.6°F), followed by 7 days in distilled water conditioned to 23±2°C (73±4°F).

Individual Results
 Specimen 1: 3.45 lbf/in
 Specimen 2: 4.19 lbf/in
 Specimen 3: 2.90 lbf/in

Result: **Average (lbf/in): 3.51 lbf/in**

Requirement 1 lbf/in. on surfaces desired

Conclusion: **Pass**

Test #: 7

Method AC-29

Test/Description: Resistance to Decay Hydrostatic Pressure over Cracks per ASTM E154/E154M-08a(2019) sect.13. Testing per ASTM C1306/C1306M-08(2016)e1 (required for Waterproofing only)

Films are applied to mortar substrates with a 1/8 in. crack prior to burial. After incubation, specimens are cleaned of soil prior to testing.

Rapid test:
 Thickness-0.0621", Fail at 11.5 psi (<1 hour).

Long term test:
 1. Thickness-0.0628", Fail at 9.0 psi (<1 hour to failure).
 2. Thickness-0.0636", Fail at 9.0 psi (<1 hour to failure).
 3. Thickness-0.0641", Fail at 9.0 psi (<1 hour to failure).

Average: 9.0 psi (<1 hour to failure).

Result: **4.5 psi**

Requirement Report 50% of lowest value achieved

Conclusion: **N/A**



Results and Conclusion

Test #: 8

Method AC-29

Test/Description: Low Temperature Crackbridging per ASTM C836/C836M-18 (required for Waterproofing only)

Specimens are prepared per ASTM C1305/C1305M-16 and conditioned at 14 days at room temperature, followed by seven days in a circulating hot air oven at 70±2°C [158±3.6°F]. The lowest test temperature at which 5 specimens pass to cycles is determined.

Result: 5 of 5 specimens pass at 30°F. No observable changes.

Requirement No cracking, splitting, pinholes, or loss of adhesion

Conclusion: Pass

Test #: 9

Method AC-29

Test/Description: Extensibility after Heat Aging per ASTM C836/C836M-18 (required for Waterproofing only)

Specimens are prepared per ASTM C1522-05(2013) and cured for 14 days at standard conditions followed by 14 days in a forced-draft oven at 70±2°C (158± 3.6°F).

Film thickness: First wet coating applied at 90 wet mils and cure at standard conditions for 24 hrs. Second wet coating applied to achieve below dry coating thickness.

Specimen 1- 63.5 mils
 Specimen 2- 64.5 mils
 Specimen 3- 62.0 mils

Result: 1/4 inch no cracking

Requirement 1/4 inch no cracking

Conclusion: Pass



Results and Conclusion

Conclusion:

Water Proof meets the requirements of AC29 as tested above.

ASTM E154, Section 13 (Weight Loss, Water Vapor Permeance, and Hydrostatic pressure ove cracks): Dry films of 60±5 mil thickness are created by applying two coats. The 1st coat was applied at 60 wet mils and measured for thickness after 24 hours. The second wet mil thickness coat is determined and applied ater 24 hours based on this measurment to provide the final dry mil thickness. A films are conditioned at standard laboratory conditions and weighed periodically to a constant weight prior to any futher testing.

Testing Dates

11/8/2019 - 6/4/2020

Tested By:

Jerry Spinelli
 Laboratory Technician

Reviewed By:

Rodney Armstrong
 Managing Director

Revision Log

Revision #	Date	Revision
1	6/4/2020	Contact Information Updated
0	6/4/2020	Initial

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Form Revision# 0- 10/28/2019

