



**TECHNICAL SERVICES LABORATORY
EVALUATION REPORT**

Contact Information

Date: 2/18/16

Tremco Project Number: 16014

Project Name: For Historical Purposes

Customer Name: FreMarq Innovations Inc.

Project Address:

Customer Phone Number: 715-842-6842

Project City:

Project State:

Project Postal Code: [Click here to enter text.](#)

Tremco Sales Representative: Jon Bauer

STATEMENT OF ATTESTATION

The following testing has been conducted in accordance with the procedures outlined by the specific ASTM standard or the appropriate modifications that are identified in the Appendix of this report.

Summary of Testing

Substrate	Primer (if applicable)	Tremco Sealant/Membrane	Recommendations
Polyurethane Reinforced Glass	TremPrime Silicone Metal Primer	Spectrem 2	Can be used with and without primer
Polyurethane Reinforced Glass	Unprimed	Spectrem 2	Can be used with and without primer
Polyurethane Reinforced Glass	TremPrime Silicone Metal Primer	Proglaze II	Tremprime Silicone metal primer is required in order to obtain successful testing criteria
Polyurethane Reinforced Glass	TremPrime Silicone Metal Primer	Proglaze SSG	Can be used with and without primer
Polyurethane Reinforced Glass	Unprimed	Proglaze SSG	Can be used with and without primer

Please contact your Tremco Sales Representative with any questions.

Appendix Attached

The test results, recommendations, or interpretations are based on the material and relevant information supplied by the customer as identified in this report. These recommendations have been derived from Tremco Laboratory Testing of the samples provided by the customer as identified in this report. Tremco cannot be held responsible for material/sample differences, substitutions, or day to day variations in the finished product which may alter these recommendations. It is Tremco's best recommendation that Field Adhesion Testing be continued throughout the project.

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Appendix

Test Data Worksheet of Laboratory Testing

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TEST DATA WORKSHEET

Test procedure(s) being requested: ASTM C794 – Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants

Date sample(s) were received: 1/19/2016

Date sample(s) were tested: 2/16/2016

Test procedure modifications (if applicable):

[Click here to enter text.](#)

DEFINITION OF PASS / FAIL CRITERIA

- **Tab Adhesion (ASTM C1193-00 Appendix X1.1)** – If substrate adhesion is acceptable, the sealant should tear cohesively within itself or achieve a minimum of 22.5 N (5lbf) from the 25 mm (1 in.) gauge length indicated in X1.1.3.3, before releasing from either substrate adhesively.
- **Adhesion-In-Peel (ASTM C794)** – The peel strength for each individual test shall not be less than 22.2 N (5 lbf). In addition, the sealant shall show no more than 25 % adhesive bond loss for each individual test.
- **Chemical Compatibility (ASTM C1087)** – After exposure, the test sealant should tear cohesively within itself or achieve a minimum peel strength of 22.5 N (5 lbf). In addition, the test and reference sealants should both achieve a rating of 1 or less according to Table 1 in ASTM C1087-00.
- **Chemical Staining (ASTM C1248)** – After exposure, the test substrate will show no change in finished surface appearance, discoloration in the substrate and a maximum average stain width and depth of 2 mm.

TABLE 1 ASTM Test Method C 1087 Stain and Color Change Descriptions

No.	Color Change	Change Description
0	None	No change from the control
1	Very, very slight	Change so slight that you are not sure it is real
2	Very slight	Fain color – generally yellow
3	Slight	Light color – commonly yellow, orange, pink or brown
4	Severe	Distinct color – possibly red or purple in addition to yellow, orange, pink or brown
5	Very severe	Dark color – may be black as well as other colors mentioned.

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TEST RESULT DATA

Substrate	Sealant	Primer	% delamination	PLI average	Pass/Fail
Polyurethane Reinforced Glass	Spectrem 2	Primed	100 Cohesive	NA	Pass
Polyurethane Reinforced Glass	Spectrem 2	Unprimed	100 Cohesive	NA	Pass
Polyurethane Reinforced Glass	Proglaze II	Primed	100 Cohesive	NA	Pass
Polyurethane Reinforced Glass	Proglaze II	Unprimed	100 Cohesive	NA	Failed
Polyurethane Reinforced Glass	Proglaze SSG	Primed	100 Cohesive	NA	Pass
Polyurethane Reinforced Glass	Proglaze SSG	Unprimed	100 Cohesive	NA	Passed

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