



Technical Service Report

Project #: NX07G1A
 Quote #: 2011-017
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 PO#:

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Abstract:

Analysis of one liquid applied Polyurethane Roof Membrane per ASTM D 7311 for Miami Dade approval.

MTI#	Description of Material	Receiving Date
MTI-110591	AlphaGuard MT Base Coat - Green	6/29/2011
MTI-110592	AlphaGuard MT Top Coat - White.	6/29/2011
MTI-111045	1 gal AlphaGuard MT Topcoat DEV1719 805 Lot# 5684941	10/10/2011
MTI-120196	AlphaGuard Glass Mat	6/29/2011

Test	ASTM	Requirement	Result	Conclusion
Dynamic Puncture Resistance	D 5635	Pass at min. 15 J (357 ft-pdls)	30.0 J (714 ft-pdls)	Pass
Elongation @ Break @ 23°C (Die C) - Top coat ONLY	D 412	Min. 200%	351%	Pass
Flexibility Mandrel Bend 1/8" mandrel at 23°C per ASTM D522- Base coat ONLY	D 522	No Cracking or checking	No cracking or checking	Pass
Flexibility Mandrel Bend 1/8" mandrel at 23°C per ASTM D522 - Top coat ONLY	D 522	No Cracking or checking	No cracking or checking	Pass
Indentation Hardness (Shore A) - Top coat ONLY	D 2240	82 ±5	85.4	Pass
QUV UV Aging (5000 hours)	G 154	No Cracking, crazing	No Cracking, crazing	Pass
Static Puncture Resistance	D 5602	Pass at min. 20 kg (45.5 lb)	3 specimens pass at 34.02 kg (75 lb)	Pass
Tear Resistance of Vulcanized Rubber and Thermoplastics Die C	D 624	Min. 33 lbf/in. (5.8 kN/m)	159.83 lbf/in. (27.97 kN/m)	Pass
Tensile Strength @ 23°C (Die C) - Top coat ONLY	D 412	Min. 1.86 Mpa (270 psi)	9.89 Mpa (1435 psi)	Pass

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Test	ASTM	Requirement	Result	Conclusion
Water Vapor Transmission (desiccant method)	E 96	N/A	0.67 perms	N/A
Water Vapor Transmission (desiccant method)	E 96	Max. 8.52 g/m ² /day (0.033 perm-in.)	4.92 g/m ² /day (0.020 perm-in.)	Pass

Conclusion:

Tremco AlphaGuard MT meets or exceeds the requirements of ASTM D7311 for Miami Dade approval.

Tested By:



Rodney Armstrong

Research &
Development Engineer

Reviewed By



John Warmus

Florida Professional Engineer

Verified By:



Cindy Campbell

Laboratory Manager

PE No. 37465

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