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No. 26, Yinping Road  
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P.R.C.

Att: Mr. Vinson Gao

DL-14733I-1

### OBJECTIVE

To test MF-889A Silicone Stone Weatherproofing Sealant for conformance to ASTM C 920, "Standard Specification for Elastomeric Joint Sealants", Type NS, Grade NS, Class 12 ½, Use NT, O (Granite).

### PRODUCT TESTED

MF-889A Silicone Stone Weatherproofing Sealant  
Color: Black

### TEST PROCEDURE

The sealant was tested in accordance with the procedures outlined in the specification.

The granite substrates were wire brushed, wiped with a damp cloth and air dried. No primers were used. Ethafoam was used as the back-up material.

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## TEST RESULTS

The test results are shown below:

<u>Par.</u>	<u>Test</u>	<u>Requirement</u>	<u>Result</u>
8.1.2	Rheological Properties Vertical 122°F 40°F	3/16" max. flow	None None
	Horizontal 122°F 40°F	No deformation	None None
8.2.1	Extrusion Rate	>10 mL/min	60 mL/min
8.4.2	Hardness – Shore A	Between 15 and 50	45
8.5	Effect of Heat Aging Weight Loss Cracking Chalking	7% max. None None	0.3% None None
8.6	Tack-Free Time	72 hours max.	3 hours
8.7	Stain and Color Change	No visible stain	Conforms
8.8	Adhesion & Cohesion Under Cyclic Movement Granite	1 ½ sq. in. max total bond loss	No bond loss
8.9	Adhesion-in-Peel Granite	5 lbf minimum 25% adhesive loss max.	14 lbf No adh. loss



**TEST RESULTS** (cont.)

<u>Par.</u>	<u>Test</u>	<u>Requirement</u>	<u>Result</u>
8.11	Effects of Accelerated Weathering	UV exposure – Cracking Figure - 2 max. Cold Temp. – Cracking Figure - 2 max.	No cracking No cracking
<b>NOTES:</b> lbf - Pounds - Force Max. - maximum coh - cohesive		sec. - seconds adh. - adhesive	

**CONCLUSION**

The submitted sealant; namely, MF889A Silicone Stone Weatherproofing Sealant, Black, conforms to all the requirements of ASTM C 920, Type S, Grade NS, Class 12 ½, when tested on unprimed granite.

**DL Labs, Inc.**

A handwritten signature in blue ink, appearing to read 'Thomas J. Sliva'.

Thomas J. Sliva  
Vice President/  
Technical Director

cw

cc: M. Lazaro, Jr.