



PRI Construction Materials Technologies LLC

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Laboratory Test Report

Report for: Coco Li
Zhengzhou Zhongyuan Silande High Technology Co., LTD
No.28 Dongqing West St., Zhengzhou Hi-Tech
Development Zone, Zhengzhou, Henan, P.R. China-450001

Product Name: MF896

Project No.: PRI-269-02-01

Dates Tested: March 25, 2019 – April 30, 2019

Test Methods: Texas DOT – Departmental Material Specifications: DMS 6310

Results Summary: Compliant: DMS-6310 - Class 4

Purpose: Evaluate the identified liquid sealant for specification properties in accordance with Texas Department of Transportation Departmental Material Specifications – DMS 6310, Joint Sealants and Fillers.

The product is a one-component, non-sag, silicone sealant for use in pavement structures.

Test Methods: Testing was completed as required in the Texas Department of Transportation Departmental Material Specifications – DMS 6310, Joint Sealants and Fillers in. Test methods assigned or referenced include ASTM C 679: *Standard Test Method for Tack-Free Time of Elastomeric Sealants*, ASTM C 1183: *Standard Test Method for Extrusion Rate of Elastomeric Sealants*, ASTM D 5329: *Standard Test Methods for Sealants and Fillers, Hot-Applied, for Joints and Cracks in Asphaltic and Portland Cement Concrete Pavements*, and TxDOT Designation: TEX-525-C – Test Procedure for Tests for Asphalt and Concrete joint Sealers.

Sampling: The following materials were received by PRI:

<u>Product</u>	<u>Source</u>	<u>Date</u>	<u>Sampling</u>
MF896	Zhengzhou, China	March 26, 2019	Manufacturer

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Results:

Property	Test Method	Result	Requirement
Physical Property Requirements			
Flow at room temperature 1 specimen; place vertical within 10 sec.; Evaluate after 30 minutes			
Type NS – Slump (mm)	TEX-525-C	0	≤ 5
Extrusion Rate 1 specimen; Cond. sealant 16h @ 73.4±3.6°F & 50±5%RH; Test Cond. @ 73.4±3.6°F & 50±5%RH Test with polyethylene nozzle @ 90±5psi for 60s	ASTM C 1183 Procedure A modified		
Specific Gravity		1.4	Report
Extrusion Rate (g/min)		143	90-250
Tack-Free Time (min) 1 specimen; Test Cond. 73.4±3.6°F & 50±5%RH; 1oz weight applied to specimen for 5±1 sec	ASTM C 679	60	35-75
Nonvolatile Content (%) 5 specimens; 10±0.5g; Expose at 158±2°F for 168±2h	TEX-525-C	97	Report
Tensile Strength (psi) 1 specimen per condition; 1/2" x 1/2" x 2"; Substrate – unprimed concrete Cure 3d+2h @ 75±5°F and 55±5%RH; Test 5 cycles; Rate = 1/8 in per hr Extension 1/2"	TEX-525-C/ ASTM D 5329		
Air-cured		20	10-50
Water bath @ 77±1°F		20	10-50
Oven @ 158±2°F		21	10-50
After bond test		22	10-50
24-hr extension test for all specimens [Pass/Fail]		Pass	Pass

Notes: None

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Statement of Compliance:

The product tested complies with the required specification properties of Texas Department of Transportation Departmental Material Specifications – DMS 6310, Joint Sealants and Fillers. The laboratory test results presented in this report are representative of the material supplied.

Signed:



Jason Simmons
Director

Date:

April 30, 2019

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	04/30/2019	3	NA

END OF REPORT

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