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PRODUCT DATA SHEET

ROADSAVER SILICONE SL

PART NO. 34903

DECEMBER 2021

READ BEFORE USING THIS PRODUCT

GENERAL

Crafco RoadSaver Silicone SL is a low modulus silicone which offers the performance and durability characteristics of conventional non-sag silicone with the ease of installation of self-leveling materials. Crafco RoadSaver Silicone SL is supplied as a ready to use one component moisture curing system which provides a lasting and flexible seal. Crafco RoadSaver Silicone SL offers outstanding weathering resistance, remains flexible down to temperatures as low as -46 °C (-50 °F), is jet-blast resistant and will maintain field serviceability when exposed to intermittent fuel and oil spills. It bonds strongly to concrete joints without the use of a primer. Crafco RoadSaver Silicone SL can be used in all typical concrete joint applications on highway and airfield pavements in all climates. RoadSaver Silicone sealant is compatible with asphalt pavement. RoadSaver Silicone SL is easily applied to concrete joints using bulk dispensing system units such as the RoadStar joint sealant pump or those available from manufacturers including Pyles/Graco and Johnstone. The leveling characteristics ensure that the required joint wetting for development of appropriate adhesion occurs during application, with no tooling required. RoadSaver Silicone SL has been a top performing quality Crafco product for over 15 years. VOC < 75 g/l.

SPECIFICATION CONFORMANCE

Crafco RoadSaver Silicone SL conforms to specifications for low modulus silicone for many highway departments and federal agencies. The product also meets and exceeds all requirements of ASTM D5893 "Standard Specification for Cold-Applied Single Component, Chemically Curing Silicone Sealant for Portland Cement Concrete Pavements" for type SL sealants. In the following specifications several of the D5893 parameters are more restrictive to better reflect properties of RoadSaver Silicone SL.

ASTM D5893 Physical Requirements

Cure Evaluation (ASTM D5893)
Rheological Properties (ASTM C639)
Extrusion Rate (ASTM C1183)
Tack Free Time (ASTM C679)
Effects of Heat Aging (ASTM C792)
Bond, -29 °C (-20 °F), 100% Extension (ASTM D5893)

ASTM D5893 SL Requirements

Pass at 21-days
Type 1, smooth level surface
Type S, 50 ml/ min. minimum
5 hr. max.
10% max. Loss

RoadSaver Silicone SL Requirements

Pass at 21-day max.
Type 1, smooth level surface
Type S, 200 ml/min. minimum
3 hr. max.
10% max. Loss

Non-Immersed
Water Immersed
Oven-Aged
Hardness (ASTM C661)
-29 °C (-20 °F), Type A2
23 °C (73 °F), Type 00
Flow (ASTM D5893)
Rubber Properties in Tension (ASTM D412, Method A, Die C)
Ultimate Elongation
Stress at 150% Elongation
Effects of Accelerated Weathering (ASTM C793)
Resilience (ASTM D5893)

Pass 5 Cycles
Pass 5 Cycles
Pass 5 Cycles

Pass 5 Cycles
Pass 5 Cycles
Pass 5 Cycles

25 max.
30 min.
No flow

10 max.
40-80 min.
No flow

600% min.
310 kPa (45 psi) max.
Pass 5000 hours
75% min.

800% min.
207 kPa (30 psi) max.
Pass at 5000 hours
75% min.

Additional properties of RoadSaver Silicone SL Sealant are:

Specific Gravity (ASTM D792-A) (1)
Adhesion to Concrete (MIL 8802) (2)
Bond and Movement Capability +/- 50% (ASTM C719) (2)
Bond to Mortar (AASHTO T132) (2)
Tensile Adhesion, % (ASTM D5329) (3)

1.10-1.40
20 pli (3.5 kg/cm) min.
Pass 10 cycles
50 psi (34.4 N/cm²) min.
600% min.

Notes:

- (1) Specimens shall be obtained from 1/8-inch (3 mm) thickness sheets of material which has been cured for 7 days at 25 +/- 2 °C (77 +/- 3 °F) and 50 +/- 5% relative humidity.
(2) Specimens cured for 28 days at 25 +/- 2 °C (77 +/- 3 °F) and 50 +/- 5% humidity prior to testing.
(3) Specimens shall be 1/2" x 1/2" x 2" (1.2 cm x 1.2 cm x 5.0 cm), cured 21 days at 25 +/- 2 °C (77 +/- 3 °F) and 50% +/- 5% relative humidity.

INSTALLATION

The unit weight is 10.9 pounds per gallon (1.31 kg/L). One gallon will seal 150 feet (45.7 m) of 1/2 inch (1.2 cm) wide by 1/4 inch (0.6 cm) deep joint. Exact yield will vary depending on thickness of sealant, waste, application techniques, etc. Prior to use, the user must read and follow Installation Instructions for RoadSaver Silicone Sealants to verify proper product selections, applicator pumps, pavement preparation procedures, application geometry, usage precautions and safety procedures. These instructions are provided with each drum of sealant.

PACKAGING

RoadSaver Silicone SL Sealant is packaged in plastic lined open head 55-gallon (208 L) drums which contain 50 gallons (189 L) of material. Additionally, for small applications the sealant is available in plastic 5-gallon (18.9 L) pails and quart (857 mL) caulking tubes.

WARRANTY

CRAFSCO, Inc. warrants that CRAFSCO sealants meet applicable ASTM, AASHTO, Federal or State specifications at time of shipment. Techniques used for the preparation of the cracks and joints prior to sealing are beyond our control as are the use and application of the sealants; therefore, Crafco shall not be responsible for improperly applied or misused sealants. Remedies against Crafco, Inc., as agreed to by Crafco, are limited to replacing nonconforming product or refund (full or partial) of purchase price from Crafco, Inc. All claims for breach of this warranty must be made within three (3) months of the date of use or twelve (12) months from the date of delivery by Crafco, Inc. whichever is earlier. There shall be no other warranties expressed or implied. For optimum performance, follow Crafco recommendations for sealant installation.