

**READ BEFORE USING THIS PRODUCT**

**GENERAL**

Crafco RoadSaver Silicone is a uniquely formulated low modulus non-sag silicone for sealing joints in Portland cement concrete pavements in all climates. The product is supplied as a ready-to-use one component moisture curing system which provides a lasting and flexible seal. Crafco RoadSaver Silicone can be used in all typical concrete joint applications on highway and airfield pavements. Crafco RoadSaver Silicone 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. The sealant bonds strongly to Portland cement concrete joints without the use of a primer. RoadSaver Silicone sealant is compatible with asphalt pavement. RoadSaver Silicone is easily applied to pavement joints using bulk dispensing system units such as the RoadStar joint sealant pump or those available from manufacturers including Pyles/Graco and Johnstone. RoadSaver Silicone has been a top performing quality Crafco product for over 15 years. VOC < 75 g/l.

**SPECIFICATION CONFORMANCE**

Crafco RoadSaver Silicone conforms to specifications for low modulus silicone for many highway departments, federal agencies, and the FAA. 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 NS sealant. In the following specifications several of the D5893 parameters are more restrictive to better reflect properties of RoadSaver Silicone.

<u>ASTM D5893 Physical Requirements</u>	<u>ASTM D5893 NS Requirements</u>	<u>RoadSaver Silicone Requirements</u>
Cure Evaluation (ASTM D5893)	Pass at 21 days	Pass at 14 days max
Rheological Properties (ASTM D2202)	0.30 in (7.6 mm) max slump	0.30 in (7.6 mm) max slump
Extrusion Rate (ASTM C1183)	Type S, 50 ml/min. minimum	Type S, 50 ml/min. minimum
Tack Free Time (ASTM C679)	5 hr. max.	25-90 minutes
Effects of Heat Aging (ASTM C792)	10% max. Loss	10% max. Loss
Bond, -29 °C (-20 °F), 100% Extension (ASTM D5893)		
Non-Immersed	Pass 5 Cycles	Pass 5 Cycles
Water Immersed	Pass 5 Cycles	Pass 5 Cycles
Oven-Aged	Pass 5 Cycles	Pass 5 Cycles
Hardness (ASTM C661)		
-29 °C (-20 °F), Type A2	25 max.	20 max.
23 °C (73 °F), Type 00	30 min.	30 min.
Flow (ASTM D5893)	No flow	No flow
Rubber Properties in Tension (ASTM D412, Method A, Die C)		
Ultimate Elongation	600% min.	800% min.
Stress at 150% Elongation	310 kPa (45 psi) max.	310 kPa (45 psi) max.
Effects of Accelerated Weathering (ASTM C793)	Pass 5000 hours	Pass at 5000 hours
Resilience (ASTM D5893)	75% min.	75% min.

**Additional properties of RoadSaver Silicone Sealant are:**

Specific Gravity (ASTM D792-A) (1)	1.15-1.515
Adhesion to Concrete (MIL 8802) (2)	20 pli (3.5 kg/cm) min.
Bond and Movement Capability +/- 50% (ASTM C719) (2)	Pass 10 cycles
Bond to Mortar (AASHTO T132) (2)	50 psi (34.4 N/cm <sup>2</sup> ) min.
Tensile Adhesion, % (ASTM D5329) (3)	400% min.

**Notes:**

- (1) Specimens shall be obtained from 1/8-inch (3 mm) thickness sheets of material 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 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 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**

CRAFCO, Inc. warrants that CRAFCO 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.**