

Spectrem® 800/900SL

Single-Component, Moisture-Cure, Silicone Sealants for Highway and Parking Applications

Product Description

Spectrem® 800 and Spectrem® 900SL are single-component, moisture-cure low-modulus, high-movement, gun-grade, parking structure and highway joint sealants. Spectrem 900SL is self-leveling.

Basic Uses

Spectrem 800 and Spectrem 900SL are formulated for highway, airport and bridge joints, and parking structures where high movement occurs.

Features and Benefits

- Low modulus and high movement characteristics make this product suitable for sealing the most demanding dynamically moving joints typical of highway and bridge construction.
- No mixing required, so product is always ready to use for immediate application with conventional caulking or highway sealing equipment
- Spectrem 900SL is self-leveling for easy installation on horizontal surfaces.

Availability

Immediately available from your local Tremco Field Representative, Tremco Distributor or Tremco Warehouse.

Packaging

Quart cartridges (850 mL)

4.5-gal (17.1-L) pails

Colors

Limestone

Special colors available upon request. Minimum order requirements exist for special colors.

Limitations

- Do not apply to damp or contaminated surfaces.
- Use with adequate ventilation.
- Not intended for continuous water immersion.

Substrate Preparation

For good adhesion, the joint interface must be sound, clean and dry. Portland cement joints should be freshly saw-cut or sand-blasted and blown clean with oil free compressed air.

Application

Spectrem 800/Spectrem 900SL are easy to apply with conventional caulking or highway sealing equipment. Fill joint while maintaining recess and tool. At 75 °F (23.9 °C), 50% RH, a durable skin will form within 60 minutes.

Backer Rod

Backer Rod					
Joint Width	1/4"	3/8"	1/2"	3/4"	1"
Recessed Below Surface	3/8"	3/8"	3/8"	3/8"	3/8"-1/2"
Sealant Thickness	1/4"	1/4"	1/4"	3/8"	1/2"
Backer Rod Diameter	3/8"	1/2"	5/8"	7/8"	1 1/4"
Total Joint Depth	1 1/8"	1 1/8" - 1 1/4"	1 1/4" - 1 3/8"	1 5/8" - 1 3/4"	2 1/4" - 2 3/8"

Joint Design

May be used in any joint design in accordance with accepted highway/engineering practice. Spectrem 800 and Spectrem 900SL should be no thicker than 1/2" (12.7 mm) and no thinner than 1/4" (6.4 mm). Sealant accepts +100%/-50% of installed width; however, Tremco recommends joint movement design ±25% movement. Sealant surface should be not flush, 1/8" to 1/4" maximum below pavement surface.

Joint Backing

Closed-cell polyethylene backer rods are preferred as joint backing to control depth of sealant bead. Where depth of joint will prevent use of joint backing, an adhesive-backed polyethylene tape must be installed to prevent three-side adhesion. Joint backing must be dry at time of sealant application.

Clean Up

Tooling is recommended with Spectrem 800 immediately after application to ensure firm, intimate contact with the joint interface. For Spectrem 900SL, tooling is generally not required. Sealant should be recessed 3/8 to 1/2" below pavement surface. Cleaning can be accomplished with solvents such as IPA, Xylol, Toluene or MEK while sealant is in uncured state.

Warranty

Tremco warrants its Products to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to Tremco Products. Tremco's sole obligation shall be, at its option, to replace, or refund the purchase price of the quantity of Tremco Products proven to be defective and Tremco shall not be liable for any loss.

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

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TYPICAL PHYSICAL PROPERTIES

PROPERTY	SPECTREM ® 800	SPECTREM ® 900SL
Flow, Sag or Slump	Nil	Self-leveling
Extrusion Rate	20 to 35 sec/20 g at 60 psi	10 to 14 sec/20 g at 60 psi
Specific Gravity	1.35	1.3
Skin-over time, at 77 °F, 50% RH	30 to 60 min	30 to 80 min
Tack-Free time, at 77 °F, 50% RH	60 to 90 min	
Cure time, at 77 °F, 50% RH	7 to 14 Days	14 Days
Full adhesion, at 77 °F, 50% RH	14 to 21 Days	14 to 21 Days
As Cured - 25 °C (77 °F), 50% RH	21 Days Cured	7 Days Cured
Elongation	1000%	1000%
Modulus, at 100% psi maximum	15 to 30	
Shore A	15	
Joint movement capability, +100/-50%, 10 cycles	No Failure	No Failure
Adhesion to concrete, minimum percent elongation	plus 500%	plus 600%
Adhesion to asphalt, minimum percent elongation		plus 600%

Applicable Standards

STANDARD	SPECTREM ® 800	SPECTREM ® 900SL
ASTM C920	✓	✓
ASTM D5893	✓	✓
U.S. Federal Specification TT-S-00230C (COM-NBS), Type I, Class A		✓
U.S. Federal Specification TT-S-00230C (COM-NBS), Type II, Class A	✓	
U.S. Federal Specification TT-S-001543 (COM-NBS), Class A	✓	
U.S. Federal Specification TT-S-001543A (COM-NBS), Class A		✓
U.S. Federal Specification SS-S-200E	✓	
CAN/CGSB-19.3-M87	✓	✓
MCG-2-40-B-N	✓	✓

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