DOWSIL™ 890-SL Silicone Joint Sealant Seals Traffic Loop Detectors and Airport Runway Light Cans Quickly, Easily, and Economically

DOWSIL™ 890-SL Silicone Joint Sealant is a one-part, cold-applied, ultra-low modulus material that cures to provide a durable, flexible silicone rubber seal for use on asphalt and Portland Cement Concrete (PCC) applications. DOWSIL™ 890-SL Silicone Joint Sealant is the ideal material in the traffic control market for sealing saw-cut openings used to encapsulate and seal sensitized wiring loops for control of traffic signals, traffic counters, parking lot gates, ticket dispensers, and other similar equipment. It is also excellent for use in sealing light cans and electrical cable used in airport runway lighting.

Advantages

- Excellent electrical properties
- Rapid skin over – skins over in 60 minutes or less to minimize the possibility of stone intrusion.
- Effectively seals out water, dust, dirt, and incompressibles.
- Easy application; one-component, ready to use as supplied; requires no special heating, mixing, or pouring equipment.
- Remains flexible; good weatherability – a 100% silicone rubber that is virtually unaffected by sunlight, rain, snow, ozone, or temperature extremes.
- No primer required. For optimum adhesion the surface mustbe clean, dry, and frost free.
- Easy repairs. If necessary, a sealant can be easily removed and replaced for cable repair.

How to Use

Surface preparation:
Wire slot or joint must be clean, dry, and frost-free when the sealant is installed. Remove dust, dirt, laitance, and all other foreign debris. Moisture-free and oil-free compressed air at a pressure of at least 90 psi should be used to blow out the wire slot or joint.

Application:
Using a manual or air-operated gun, install DOWSIL™ 890-SL Silicone Joint Sealant from a 29 fl. oz. cartridge into the wire slot or joint to encapsulate the wire. Fill from the bottom up to 3/8 inch or greater of the roadway. Where required, strike off just below surface level and remove any excess material. DOWSIL™ 890-SL Silicone Joint Sealant is also available in 4.5 gallon pails. It can be used with most one-part, commonly used, loop sealant pumps. (Check with your pump manufacturer or Dow for further information.)

For detailed, recommended surface preparation and installation procedure, refer to Dow's Installation Guide for Silicone Pavement Sealants (Form No. 61-507).

Limitations:
DOWSIL™ 890-SL Silicone Joint Sealant is not recommended for continuous water immersion. It should not be applied in totally confined spaces where the sealant is not exposed to atmospheric moisture. The sealant should never be applied to wet or damp asphalt or concrete pavements or installed during inclement weather.

Typical Properties

These values are not intended for use in preparing specifications or joint designs, but for comparison of rubber and electrical properties.

As Supplied	
Color	Dark Grey/ Light Grey
Viscosity, poise	120
Extrusion Rate, grams per minute	275-550
Percent Solids	97
Specific Gravity	1.26-1.34
Skin-Over Time, @ 25°C (77°F), minutes	30
*Cure Time, @ 25°C (77°F), days	14-21
As Cured - After 21 days @ 25° C (77° F) and 50% Rh	
Modulus @ 100% Elongation, psi	8
Dielectric Constant, 15 KHz	3.7
50 MHz	3.1
Dissipation Factor, 15 KHz	0.009
50 MHz	0.006
Volume Resistivity, (Ohm-cm)	$1.2x10^{14}$

*Can be open to traffic in 30 minutes

Packaging

DOWSIL™ 890-SL Silicone Joint Sealant is available in quart cartridges, 4.5-gallon pails, or 50-gallon drums.

For more information

Learn more about Dow's full range of High Performance Building solutions, including service and support, at **dow.com/buildingscience**.

Dow has sales offices, manufacturing sites, science and technology laboratories around the globe. Find local contact information at **dow.com/contactus.**

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