



Product Data Sheet

ASMACO[®] 2890 SL

Description: ASMACO 2890 SL is a single-component, low-odour, neutral-cure, self-levelling liquid silicone sealant designed for sealing concrete and concrete-to-asphalt pavement joints. It provides strong adhesion to both porous and non-porous materials and offers long-lasting performance in extreme conditions. The product is non-corrosive and resistant to ozone, UV, and a wide range of temperatures.

Upon exposure to atmospheric moisture, Asmaco 2890-SL cures to form an ultra-low modulus, flexible silicone rubber that can withstand extreme temperatures (-30°C to 185°C). The sealant's ultra-low modulus formulation is essential for minimizing strain on asphaltic substrates, which typically have low tensile strength.



KEY PERFORMANCE PROPERTIES

- **Single-Component:** Easy to apply without mixing
- **Neutral Cure:** Low odour and compatible with most substrates
- **Self-Levelling:** Flows into joints effortlessly, ensuring a smooth application
- **Durable Adhesion:** Bonds strongly to a wide range of porous and non-porous materials such as concrete, asphalt, metals, and masonry
- **Resistant to Environmental Factors:** UV, ozone, and extreme temperatures
- **Non-Corrosive:** Safe for metal and other construction materials
- **Ultra-Low Modulus:** Ensures minimal stress on joint substrates, especially asphalt
- **Flexible in a Wide Temperature Range:** Remains flexible and functional from -30°C to 185°C
- **Movement Accommodation:** Accommodates joint movements up to 50% of the original joint width.
- **Long-Lasting Durability:** The cured sealant retains flexibility and performance under a wide range of environmental conditions.
- **Weather & UV Stability:** The silicone rubber resists cracking or degrading, even after prolonged exposure to sunlight, ozone, and harsh weather.

STANDARDS

ASMACO 2890 SL meets or exceeds the requirements of the following specifications:

- ASTM C 920
- ASTM D 5893
- U.S. Federal Specification TT-S-00230C (COM-NBS), Type I, Class A
- U.S. Federal Specification TT-S-001543A (COM-NBS), Class A

AREAS OF APPLICATION

Asmaco 2890-SL is designed for sealing of horizontal joints in:

- Concrete to asphalt pavement joints
- Concrete expansion joints
- Airport runways, taxiways, and aprons
- Parking decks, driveways, and walkways
- Precast concrete joints and control joints

METHOD OF APPLICATION

Surface Preparation:

- Ensure that the wire slot or joint is **sound, clean, dry, and frost-free** before applying the sealant.
- Remove dust, dirt, laitance, and any other foreign matter to guarantee a strong bond.
- Use **moisture-free and oil-free compressed air** at a pressure of at least **90 psi** to blow out the wire slot or joint, ensuring a clean surface for sealant application.

Application:

- Using a **manual or air-operated gun**, install **Asmaco 2890 SL** directly from a standard cartridge into the wire slot or joint. The sealant should fully encapsulate the wire within the joint.
- Fill the joint from the bottom up, leaving approximately **1/8"** to **1/4"** from the surface of the roadway. Where necessary, strike off the excess material just below the surface level for a smooth finish.
- The sealant can be used with most common **one-part loop sealant pumps**; however, verify compatibility with your pump manufacturer before use.

Rev 03, TDS_ASMACO 2890 SL, GCC 0924



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Limitations:

- Asmaco 2890 SL is not recommended for continuous water immersion or applications in confined spaces where it is not exposed to atmospheric moisture.
- Do not apply on wet or damp asphalt or concrete surfaces, or during inclement weather.
- Curing time is influenced by **atmospheric conditions**, including humidity, temperature, and sealant thickness. The typical cure rate is **>1 mm per day at 25°C and 50% relative humidity**. Lower moisture content will reduce the curing rate, and thicker applications may take longer to cure.
- In confined spaces, curing may be significantly slower, and **incomplete curing** may result in solvent retention, especially in high temperatures. Any applications involving confinement should be thoroughly tested before commercialization.

Joint Preparation:

- Install **backing material, joint filler, setting blocks, spacer shims, and tapes** as required to support the sealant and ensure proper joint design.
- Mask** areas adjacent to the joints to ensure clean and neat sealant lines.
- Primer** is typically not required for non-porous surfaces, but may be necessary for porous materials. Always perform a **test placement** to verify adhesion before full-scale application.
- Remove the masking tape immediately after the application is complete to achieve clean edges.

Caution:

- Direct contact** with uncured sealant can cause **eye and skin irritation**. Prolonged exposure to vapors may irritate the nose and throat.
- Avoid contact with eyes and skin, and use the sealant only in areas with **adequate ventilation**.
- Do not handle contact lenses** if sealant is on your hands. In case of eye contact, flush with water for **15 minutes** and seek medical attention.
- For skin contact**, wash thoroughly with soap and water.
- Keep out of reach of children.**
- For further safety information, consult the **Material Safety Data Sheet (MSDS)**.

PACKAGING / SUPPLYING

ASMACO 2890 SL is available in
200 Liter Open Mouth Drum

CLEAN UP

Clean all the equipment immediately with **ANCHOR CLEANER 1**

COVERAGE RATE

The approximate linear meter sealant consumption per liter can be estimated from the following formula:

$$\frac{W \times D}{1000}$$

= Sealant Consumption per linear meter per liter.

Where: W = Joint Width (mm), D = Joint Depth (mm)

Joint Size in mm w:d	L /Running Meter	RM /200 Liter Drum
10 x 10	0.100	2000
12 x 12	0.144	1389
15 x 15	0.225	889
20 x 15	0.300	667
20 x 20	0.400	500
25 x 20	0.500	400
25 x 25	0.625	320
30 x 25	0.750	267

QUALITY & CARE

All products originating from **ANCHOR ALLIED FACTORY LLC Sharjah, UAE.** facility is manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, and ISO 14001.

HEALTH & SAFETY

Protective clothing such as gloves and goggles should be worn while applying **ASMACO 2890 SL**. In case the material splashes to the skin or eyes wash the same with fresh water immediately. **In critical cases seek medical assistance.**

STORAGE & SHELF LIFE

ASMACO 2890 SL Store in cool place under cover, out of direct sunlight and protect from extreme temperatures. In tropical climate the product must be stored in air – conditioned environment (<25° C). The shelf life is up to 12 months in unopened conditions if stored as per guidelines.



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TECHNICAL SPECIFICATIONS

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	Grey	—
Viscosity @25°C	40000 — 45000 cps	—
Consistency	Self Levelling	—
Curing Mechanism	Neutral	—
Application Temperature	+5°C — +40°C	—
Service Temperature	-30°C — +185°C	—
Curing rate	> 1 mm/day (23°C and 50% R.H)	—
Density, g/m ³	~1.20	ASTM D 1475
Skin Over Time	30 min	ASTM C 920 -18 / ASTM C 679 - 15
Tack Free Time	45 min	ASTM C 679
Hardness Shore A	15 — 21	ASTM D 2240
Adhesion & Cohesion	No, Cracks, Loss of Adhesion	ASTMC 920 -18/ASTM C 719 -14
MAF Movement Capability	± 50	ASTM C 920
UV Resistant	Excellent	ASTM G 154
Ozone Resistance	Excellent	ASTM D 1149
Weatherability	Excellent	ASTM G 26
Elongation at Break	≥ 300 %	ASTM D 412
E 100 Modulus	≥ 0.30 N/mm ²	ASTM D 412
Tensile Strength	>1.20 N/mm ²	ASTM D 412

Properties listed are based on laboratory-controlled tests. All values given are subject to 5-10% tolerance.

Shipping Limitations: None

Note

The information and data contained in the product data sheet is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of the product for usage. Since the supplier cannot know all the uses, or the conditions of use to which the product may be exposed, no warranties concerning the fitness or suitability for particular use or purpose are made. It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application. Likewise if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

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MFG. OF SILICONE , ACRYLIC & POLYURETHANE SEALANTS, WATER PROOFING COATINGS,
SELF - ADHESIVE TAPES, SPRAY PAINTS, CONTACT ADHESIVE, PVC CEMENTS, EPOXY STEEL

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