

SUPPLEMENTAL SPECIFICATION**SECTION 562 – ELASTOMERIC SEALANT**

This supplemental deletes the existing language for Elastomeric Sealant for Section 562 and reallocates Section 562 for Silicone Joint Sealant.

Delete**SECTION 562 – ELASTOMERIC SEALANT****Add****SECTION 562 – SILICONE JOINT SEALANT****Description**

1.1 This work shall consist of all work required to furnish and install silicone joint sealant as shown on the plans. The joint sealant shall consist of a cured-in-place silicone rubber material forming a flexible watertight seal.

Materials

2.1 Silicone joint sealant shall meet the requirements of ASTM D 5893 and shall be a product listed on the Qualified Products List. Silicone joint sealant for horizontal joints shall be either Type NS (Non-Sag) or Type SL (Self-Leveling). Silicone joint sealant for vertical joints shall be Type NS (Non-Sag).

2.2 Backer rod, when required, shall be expanded closed cell polyethylene, meeting the requirements of ASTM 5249.

2.3 Primer shall be a product recommended by the silicone joint sealer manufacturer.

Construction Requirements

3.1 GENERAL. The treatment of the steel, concrete, and stone surfaces and the preparation and installation of material shall be as recommended by the manufacturer.

3.1.1 Concrete shall have cured a minimum of 14 days prior to application of the primer and/or sealant.

3.1.2 The joint area shall be abrasive blast cleaned to achieve an anchor profile that is clean, and free of laitance, oil and foreign materials. Steel substrates shall receive an SSPC SP10 near-white metal blast cleaning or other treatment as directed by the Engineer prior to application of the primer. After blasting, all abrasives, dust and dirt shall be blown out of and away from the joint using a high-pressure air blast. All

equipment used for preparing and cleaning the joint shall be equipped with traps capable of providing moisture-free and oil-free air. All surfaces shall be dry and frost-free.

3.1.3 Primer shall be applied to all substrates to be sealed unless otherwise directed by the Engineer. The prime coat shall be applied in a thin, uniform layer over the entire contact surface area in accordance with the sealant manufacturer's recommendations.

3.1.3.1 The primer shall cure in accordance with the manufacturer's recommendations before application of the sealant. In all cases, the prime coat shall be allowed to dry for a minimum period of 60 minutes prior to the application of the sealant. The priming operation shall not be performed more than 3 hours ahead of the sealing operation at any given time.

3.1.4 The backer rod, when required, shall be installed at the appropriate distance below the finish grade surface. The width of the backer rod shall be approximately 25% wider than the joint opening.

3.1.5 Silicone sealant installation method and application tools shall be as recommended by the manufacturer. Non-sag sealants shall be tooled in place in accordance with the manufacturer's recommendations.

3.1.5.1 The silicone bead shall be no thicker than 1/2 in (13 mm) and no thinner than 1/4 in (6 mm). The top of the silicone bead shall be recessed 3/8 in (10 mm) below finish grade except below paved surfaces, where sealant shall be at top of concrete. For non-joint applications on the plans where sealant is specified to fill a void, the sealant shall be pressed into place to completely seal the void and tooled to shed moisture.

Method of Measurement

4.1 Silicone joint sealant will not be measured, but shall be the linear foot (linear meter) final pay quantities in accordance with 109.11 for silicone joint sealant required as shown on the plans. Material removed because of faulty workmanship will not be measured.

Basis of Payment

5.1 Silicone joint sealant is a final pay quantity item and will be paid for at the contract unit price linear foot per (linear meter) complete in place in accordance with 109.11. No additional payment will be made for the primer or backer material.

Pay item and unit:

562.1	Silicone Joint Sealant (F)	Linear Foot (Linear Meter)
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