

## REVISION OF SECTION 518 RAPID CURE JOINT SEALANT

Revise Section 518 of the Standard Specifications for this project as follows:

### Description

This work consists of furnishing and installing a rapid cure silicone joint sealant at locations designated in the plans or as directed by the Engineer.

### Materials

Materials for the silicone joint sealant shall meet the following requirements:

- (a) *Joint Backing Material.* Backer rod material shall be extruded, soft type, low density polyethylene, with a skin-like outer texture that does not bond to the silicone sealant.
- (b) *Silicone Sealant.* The Silicone Sealant shall be a non-sag, one component, ultra-low modulus elastomeric neutral core rapid cure silicone joint sealant. The Silicone Sealant materials shall be from the list shown on the CDOT Approved Product List, category: Sealant (Joint and Crack), Silicone Joint, Self Levelling or an approved equal. The Silicone materials shall be stored and applied in accordance with the manufacturer's recommendations but shall not be exposed to ambient temperatures in excess of 125 degrees F or stored in direct sunlight.
- (c) *Primer for Silicone Sealant.* The primer shall be in accordance with the silicone manufacturer's recommendations.

### Construction Requirements

Joints shall be inspected for proper depth, width, alignment and preparation recommended in the manufacturer specifications and shall be approved by the Engineer prior to installing sealant material. Sandblasting and cleaning shall be as recommended by the manufacturer and any compressed air used shall be filtered and oil-free.

The joint faces shall be primed with an approved primer in accordance with manufacturer's recommendations. The backer rod shall be installed to the proper depth and the silicone shall be extruded into the joint. The silicone sealant is self-leveling; therefore, the Contractor shall take every precaution to ensure that leaking does not occur.

The Contractor shall provide a qualified representative of the manufacturer on site during the installation of the sealant. The representative shall remain on site until the job is complete. The representative shall be responsible for:

- 1) Advising the Engineer and providing guidance to the Contractor for the correct installation of the material.
- 2) Certifying to the Engineer that the material has been installed correctly.

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**Method of Measurement**

Rapid cure silicone joint sealant will be measured by actual quantity completed and accepted.

**Basis of Payment**

The accepted quantity of Rapid Cure Silicone Joint Sealant will be paid for at the contract unit price.

Payment will be made under:

Pay Item	Pay Unit
Rapid Cure Silicone Joint Sealant	Linear Foot

Payment for Rapid Cure Silicone Joint Sealant will be full compensation for all labor, materials, tools, equipment, and incidentals required to complete the item including cleaning and sandblasting.

All costs associated with having a manufacturer’s representative on site during installation will not be measured and paid for separately but shall be included in the work.

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**Instructions to Designers (delete instructions and symbols from final draft):**

Use this project special provision when sealing cracks or joints in concrete such as slope paving above MSE Block Walls to prevent water entering and causing freeze-thaw damage to MSE Block Facing.

**Permanent Changes to Project Dated Special Provisions**

**Revision of Section**            518 Rapid Cure Joint Sealant

<u>Date</u>	<u>Author</u>	<u>Description of Change</u>
1/14/19	BPM Cons.	Initial Website Issue
04.11.2023	M. Kayen	Revisions to make spec online accessibility-compliant. 5.22.23 Additional accessibility work.