

**Supplemental Specification
2017 Standard Specification Book**

SECTION 03152M

CONCRETE JOINT CONTROL

Delete Article 2.5 and Table 4 and replace with the following:

2.5 JOINT SEALER (STRUCTURES)

- A. Cold-applied, gun-grade, polyurethane base material that cures under field conditions to form a rubber-like, non-sag, elastomeric joint seal as specified in Federal Specifications TT-S-00230 C, Type II, Class A and ASTM C 920, Type S or M, Grade NS, Class 35 or higher, with at least the following Use: T, M, I.

- B. Use material that bonds tightly to the sides of the concrete groove and exhibits the physical properties in Table 4 when cured and tested after 21 days at 73 degrees F.

Table 4

Physical Properties of Joint Sealer (Structures) and Test Methods		
Description	Requirement	Test Method
Modulus of Elasticity at 100 percent Elongation	65 psi minimum	ASTM D 412
Hardness (Shore A)	30 minimum	ASTM C 661
Elongation (at break)	300 % minimum	ASTM D 412
Tensile Strength	175 psi minimum	ASTM D 412
Adhesion-in-Peel	20 lbs/linear inch (pli)	ASTM C 794
Service Temperature Range	-20 °F to 180 °F	TT-S-00230 C
Final Cure	5 to 8 days	ASTM C 679
Color	Gray	

Delete Part 3 and replace with the following:

PART 3 EXECUTION

3.1 RELIEF JOINT SEALING

- A. Form or saw cut joint as shown.
- B. Cleaning and Drying
 - 1. Asphalt joint
 - a. Clean 6 inches on both sides of the joint of foreign matter and loosened particles with a hot compressed air heat lance immediately before sealing the joint.
 - b. Adequate cleaning is determined by surface darkening at least 12 inches wide, centered on the joint.
 - 2. Concrete joint
 - a. Clean joint and concrete surface by sand blasting before applying the sealant.
 - b. Remove sand left by sandblasting from the joint and surrounding surfaces using compressed air.
- C. Use a backer rod compatible with the sealant, when shown.
- D. Apply hot poured joint sealant as shown.

END OF SECTION