SECTION 1014 -- JOINT SEALING FILLER

1014.01 -- Description

Joint sealing filler shall be either a silicone product or an asphalt product (hot pour) conforming to the requirements of this Section. The type of joint filler to be used shall be as specified in the plans or special provisions. If not specified, any of the joint sealing fillers in this Section may be used.

1014.02 -- Material Characteristics

1. a. Hot-poured joint sealer shall conform to the requirements of ASTM D 3405. The bond test shall be according to the alternate procedures at -0°F.

b. The flow at 140°F shall not exceed 0.2 inch. Resilience, when tested at 77°F, shall exhibit a minimum recovery of 50 percent.

2. Silicone joint sealers may be either self-leveling or non-sag and shall meet the requirements in Table 1014.01.

Table 1014.01

Silicone Joint Sealer Requirement		
Property	**Requirement**	**Test**
As supplied:		
Specific Gravity	1.010-1.515	ASTM D 792
Work Time, minimum	10 minutes	
Tack-Free, at 25°C	20-360 minutes	
Cure Time, at 25°C, maximum	14 days	
Full Adhestion, maximum	21 days	
As cured, at 25°C + 1.5		
Elongation, minimum	800%	ASTM D 412
Durometer		
Non-Sag, Shore A	10-25	ASTM D 2240
Self-Leveling, Shore 00, minimum	40	ASTM D 2240
Joint Movement Capacity	+100% to -50%	ASTM C 719
Tensile Stress, at 150% Elongation	45 psi	ASTM D 412

1014.03 -- Acceptance Requirements

1. Acceptance of hot-pour and cold-pour joint sealers shall be based upon sampling and testing of each lot (11 pound sample) in accordance with the NDR *Materials Sampling Guide*.

2. a. Acceptable joint sealing filler lots are listed on the NDR Approved Products List.

b. Approval may be based upon test results from an independent laboratory submitted to the NDR Concrete Materials Section by the manufacturer and random sampling and testing by the NDR.

c. The silicone joint sealer must be essentially identical in composition and performance to that tested for approval.