

Joint Fillers and Sealers

3702 PREFORMED JOINT FILLERS

3702.1 SCOPE

Provide preformed filler material for joints in concrete construction.

3702.2 REQUIREMENTS

Provide preform joint filler material listed on the Approved/Qualified Products List.

Provide the following types of preformed joint filler material meeting the requirements of AASHTO M 153 or AASHTO M 213:

- (1.1) Type A – Cork
- (1.2) Type B – Self-expanding Cork
- (1.3) Type C – Sponge Rubber
- (1.4) Type E – Bituminous Type

Provide the following types of preformed joint filler material in accordance with the following:

- (2.1) Type D-1 – Closed-cell Polyethylene Foam meeting the requirements of ASTM D7174
- (2.2) Type D-2 – Closed-cell Polypropylene Foam

Provide the filler for each joint in a single piece for the full depth and width required for the joint unless otherwise approved by the Engineer. For pavement construction, provide filler in lengths equal to the width of the pavement lanes. Where dowel bars are necessary, provide joint filler with properly sized clean-cut punched holes correctly spaced to fit flush with the dowel bars.

Provide preformed filler material meeting the requirements of Table 3702-1.

Table 3702-1 Preformed Joint Filler Requirements						
Properties	Type					
	A	B	C	D-1	D-2	E
Compression	50-1500 psi *	50-1500 psi *	50-1500 psi *	5-300 psi	30-60 psi *	100-750 psi *
Recovery	>90 %	>90 %	>90 %	>95 %	>80 %	>70 %
Extrusion	<0.25 in	<0.25 in	<0.25 in	<0.5 in	<0.25 in	<0.25 in
Density †	-	-	>30 lb/ft ³	-	>3.5 lb/ft ³	>19 lb/ft ³
Water Absorption	-	-	-	-	<1 %	<15 %
Asphalt Content	-	-	-	-	-	>35 %
Expansion	-	>140 %	-	-	-	-
* To 50% of the original thickness Compression requirements per ASTM D7174 † Air-dried						

3702.3 SAMPLING AND TESTING

Provide samples for testing meeting the requirements of the Schedule of Materials Control.