

1 **Section 9-04, Joint and Crack Sealing Materials**
2 **January 3, 2017**

3 This section is supplemented with the following two new subsections:
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5 **9-04.11 Butyl Rubber Sealant**

6 Butyl rubber sealant shall conform to ASTM C 990.
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8 **9-04.12 External Sealing Band**

9 External sealing band shall by Type III B conforming to ASTM C 877.
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11 **9-04.1(2) Premolded Joint Filler for Expansion Joints**

12 This section is supplemented with the following:
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14 As an alternative to the above, a semi-rigid, non-extruding, resilient type, closed-cell
15 polypropylene foam, preformed joint filler with the following physical properties as tested
16 to AASHTO T 42 Standard Test Methods may be used.
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Closed-Cell Polypropylene Foam Preformed Joint Filler		
Physical Property	Requirement	Test Method
Water Absorption	< 1.0%	AASHTO T 42
Compression Recovery	> 80%	AASHTO T 42
Extrusion	< 0.1 in.	AASHTO T 42
Density	> 3.5 lbs./cu.ft.	AASHTO T 42
Water Boil (1 hr.)	No expansion	AASHTO T 42
Hydrochloric Acid Boil (1 hr.)	No disintegration	AASHTO T 42
Heat Resistance °F	392°F± 5°F	ASTM D 5249

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19 **9-04.2(1) Hot Poured Joint Sealants**

20 This section's content is deleted and replaced with the following new subsections:
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22 **9-04.2(1)A Hot Poured Sealant**

23 Hot poured sealant shall be sampled in accordance with ASTM D5167 and tested in
24 accordance with ASTM D5329.
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26 **9-04.2(1)A1 Hot Poured Sealant for Cement Concrete Pavement**

27 Hot poured sealant for cement concrete pavement shall meet the requirements of
28 ASTM D6690 Type IV, except for the following:
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- 30 1. The Cone Penetration at 25°C shall be 130 maximum.
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32 2. The extension for the Bond, non-immersed, shall be 100 percent.
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34 **9-04.2(1)A2 Hot Poured Sealant for Bituminous Pavement**

35 Hot poured sealant for bituminous pavement shall meet the requirements of ASTM
36 D6690 Type I or Type II.
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38 **9-04.2(1)B Sand Slurry for Bituminous Pavement**

39 Sand slurry is mixture consisting of the following components measured by total weight:
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- 41 1. Twenty percent CSS-1 emulsified asphalt,

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- 2. Two percent portland cement, and
- 3. Seventy-eight percent fine aggregate meeting the requirements of 9-03.1(2)B Class 2. Fine aggregate may be damp (no free water).

9-04.2(2) Poured Rubber Joint Sealer

The last paragraph is deleted.

9-04.4(1) Rubber Gaskets for Concrete Pipes and Precast Manholes

“AASHTO M 198” is revised to read “ASTM C 990”.

9-04.4(3) Gaskets for Aluminum or Steel Culvert or Storm Sewer Pipe

In the last sentence, “AASHTO M 198” is revised to read “ASTM C 990”.