KANSAS DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION TO THE
STANDARD SPECIFICATIONS, EDITION 2007

SECTION 608
ASPHALT SEALING

Change the title to ASPHALT SEALING (LOW ADT).

Add the following additions to Table 601-1:

<table>
<thead>
<tr>
<th>TYPE AND GRADE</th>
<th>TEMPERATURE RANGE (ºF)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Spraying</td>
</tr>
<tr>
<td></td>
<td>Min.</td>
</tr>
<tr>
<td>Asphalt Cement (AC-20-5TR)</td>
<td>325</td>
</tr>
<tr>
<td>Asphalt Cement (AC-20-XP)</td>
<td>325</td>
</tr>
<tr>
<td>Asphalt Cement (AC-10-2TR)</td>
<td>300</td>
</tr>
<tr>
<td>Asphalt Cement (AC-10-XP)</td>
<td>300</td>
</tr>
</tbody>
</table>

Add TABLE 608-A to subsection 608.2.

<table>
<thead>
<tr>
<th>TABLE 608-A: SPECIFICATIONS FOR ASPHALT CEMENT FOR ASPHALT SEALING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td>Polymer</td>
</tr>
<tr>
<td>Polymer Content</td>
</tr>
<tr>
<td>Dynamic shear, G* sin δ, 64ºC, 10 rad/s, kPa</td>
</tr>
<tr>
<td>Viscosity, 275ºF, cPoise</td>
</tr>
<tr>
<td>Penetration, 77ºF, 100g, 5sec</td>
</tr>
<tr>
<td>Elastic Recovery, ASTM D6084 50ºF, % Recovery, 1 hour</td>
</tr>
<tr>
<td>Softening Point, ºF</td>
</tr>
<tr>
<td>Test of Residues from RTFO Aging and PAV Bending Beam Rheometer at - 18°C, MPa</td>
</tr>
</tbody>
</table>

(1) Produce the AC-20-5TR with a minimum of 5% scrap, group, whole tire rubber.
(2) Produce the AC-10-2TR with a minimum of 3% polymers to include a combination of tire rubber and SBS.

Add the following to the end of subsection 1201.2:

i. Asphalt Cement (AC).
(1) Definition of testing levels.
Complete AASHTO Specification Compliance (SC) test for AC:
Viscosity, 140ºF
Viscosity, 275°F
Penetration, 77°F
Flash Point, COC
Solubility
Tests on Residue from TFOT
   Loss on heating
   Viscosity, 140°F
   Ductility, 77°F
Quality Control (QC) Tests for AC:
   Viscosity @ 140°F
   Penetration @ 77°F

(2) When shipping from Refineries and Blending Facilities, use the following guidelines:
   (a) For a tank which is filled before beginning shipping, and then emptied before more material is
       added, perform 1 complete AASHTO SC test per tank when filled, and weekly QC tests.
   (b) For a tank being continually filled while continuous shipping is made from the tank, perform 1
       complete AASHTO SC test per week, and daily QC tests
   (c) When blending directly into a tanker, sample every third truck for QC tests, and perform 1
       complete AASHTO SC test per week.
   (d) Under any of the operations described above, if the results of any of the QC tests indicate the
       product may be out of specification, stop shipment from that source immediately. Perform a
       complete AASHTO SC test to ascertain the product status and re-certify the source.

(3) When shipping from Terminals, use the following guidelines:
   (a) For operations where a tank is filled before beginning shipping, and then emptied before more
       material is added, perform a complete AASHTO SC test at the refinery on the material being
       shipped. When the shipment arrives at the terminal, run the QC tests to verify the material as it is
       being unloaded. After that, perform the QC tests weekly until the tank is emptied.
   (b) For operations where a tank is being continually filled while continuous shipping is being
       made from the tank, perform a complete AASHTO SC test at the refinery on the material being
       shipped. When the shipment arrives at the terminal, run the QC tests to verify the material as it is
       being unloaded. Perform the QC tests on the contents in the tank weekly. Perform a complete
       AASHTO SC test on the contents in the tank once per month.
   (c) Under any of the operations described above, if the results of any of the QC tests indicate the
       product may be out of specification, stop shipment from that source immediately. Perform a
       complete AASHTO SC test to ascertain the product status and re-certify the source.

(4) Asphalt cement containing particulate modifiers may be susceptible to separation of the modifier.
Provide appropriate circulation or agitation in storage if separation of the modifier is expected, suspected or if the
modified asphalt will be stored at elevated temperature for more than one day before use.

06-22-07 M&R (RAB)