

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

**SECTION 606**

**MICROSURFACING**

**Page 600-37, delete subsection 606.3a. replace with the following:**

**a. Mix Design.**

(1) Job Mix Formula. Develop and submit the job mix formula and certified test results meeting the criteria in **TABLE 606-1** for the Engineer's approval. Include aggregate type and gradation, percentage of modified emulsion, water and cement by weight of dry aggregate in the mix.

<b>TABLE 606-1: MICROSURFACING MIX DESIGN REQUIREMENTS</b>		
<b>Property</b>	<b>Test</b>	<b>Requirements</b>
Wear Loss (Wet Track Test)	ASTM D6372 (1 hr soak) (6 day soak)	50 g/ft <sup>2</sup> , maximum 75 g/ft <sup>2</sup> , maximum
Wet Cohesion	ASTM D6372 @ 30 minutes @ 60 minutes	10 in-lbs, minimum 17 in-lbs, minimum
Wet Stripping	ISSA TB-114	90%, minimum
Mix Time @ 77°F	ISSA TB-113	Controllable to 120 seconds, minimum

(2) Proportioning. Use the proportions in **TABLE 606-2** unless otherwise shown in the Contract Documents. Do not begin microsurfacing until the Engineer approves the mix design, materials, and construction.

<b>TABLE 606-2: MICROSURFACING MIX PROPORTIONING</b>		
<b>Material</b>	<b>Units</b>	<b>Value</b>
Mineral Aggregate	lbs/SY dry weight	15, minimum
Modified Emulsion	Percent residue by weight	6.5, minimum
Mineral Filler	Percent by weight of dry aggregate	1.0 to 3.0 *
Additive	Percent by weight of dry aggregate	As required

\* Unless otherwise approved by the Engineer.

(3) Aggregate and Asphalt. Screen the aggregate for lumps, and weigh it before delivery to the lay down machine. Weigh the emulsified asphalt. The Engineer will approve the screens and scales.

Provide individual volume or weight controls for proportioning each item to be added to the mix. Calibrate and mark each material control device. Locate the devices to be accessible for ready calibration, and place so the Engineer can determine the amount of each material used at any time.

Mineral filler may be added at the loading facility, provided the Engineer approves accurate proportioning and metering devices, and there is no detrimental effect on the final product.

**Page 600-37, subsection 606.3b., delete the fifth word, "modified".**

**Page 600-38. Subsection 606.3g. In the second sentence, delete "60°F" and replace with "50°F".**

**Page 600-38, add the following subsection 606.3h.:**

**h. Observation Period.** The Engineer, along with the Contractor, will inspect the microsurfacing, 30 days after work is completed on the microsurfacing. Repair areas where there is no cover material left in place (bare areas) as directed by the Engineer:

- In 5% the wheel paths; and
- Individual areas  $\geq$  10 square yards; and
- Where the total square yards of bare areas is greater than 5% of the total square yards of the seal.

01-25-10 C&M  
Apr-10 Letting