

523 PATTERNED/TEXTURED PAVEMENT.

(REV 6-1-10) (FA 7-29-10) (1-11)

ARTICLE 523-2 (Pages 655 – 656) is deleted and the following substituted:

523-2 Materials.

523-2.1 Qualified Products List (QPL): Use only patterned/textured pavement products listed on the QPL. Meet manufacturer's specifications for all pattern/texture templates, coating and coloring materials. Use only material that is delivered to the job site in sealed containers bearing the manufacturer's original labels.

Material coatings used to achieve the pattern/texture and/or color shall produce an adherent, weather resistant, skid resistant surface capable of resisting deformation to traffic. Surface marking materials must meet the requirements of this Specification and Section 971 with the following exceptions:

1. Color and reflectivity requirements do not apply. Surfaces shall not be made retroreflective.
2. Requirements for minimum set to bear traffic time, do not apply. Do not open to traffic until the coating material has sufficiently dried or cured and is ready to withstand traffic.
3. For thermoplastic materials, the requirements for alkyd based materials only in 971-5.1 and minimum binder content of 971-5.2, do not apply.
4. For thermoplastic materials, the indentation resistance requirements and minimum flashpoint requirements of 971-5.5, do not apply.

Manufacturers seeking approval of their product for inclusion on the QPL must submit an application in accordance with Section 6 along with the following documentation:

1. Manufacturer's specifications and procedures for materials and installation.
2. Manufacturer's Laboratory test data from an independent laboratory verifying the material meets the requirements of this Section.
3. Test data from an independent source verifying that the patterned/textured pavement installed in accordance with the manufacturer's specifications and procedures has been tested in accordance with either the ASTM E-274, Skid Resistance of Paved Surfaces using a standard ribbed full Scale Tire at a speed of 40 mph (FN40R), and has a minimum FN40R value of 35, or ASTM E-1911, Measuring Paved Surface Frictional Properties Using the Dynamic Friction Tester, at a speed of 40 mph (DFT40), and has a minimum DFT40 value of 40.

523-2.2 Performance Requirements: QPL approval will be contingent on a field service test demonstrating that the imprinted texture and coating materials meet the following performance measures at the end of three years from opening to traffic:

1. The imprint must maintain a depth of 50% of the original installed depth and width.
2. Wearing of the material coating shall not expose more than 15% of the underlying surface area.
3. Friction performance of patterned/textured pavement materials must meet or exceed one of the following test method values:
 - (a) FN40R value of 35 in accordance with ASTM E-274; or,

(b) DFT40 value of 40 in accordance with ASTM E-1911

The field service test installation shall be within a marked crosswalk on a roadway with an ADT of 8,000 to 12,000 vehicles per day per lane, approved by the Department. The test installation shall be a minimum six feet wide and extend from pavement edge to pavement edge across all traffic lanes and shoulder pavement at the crosswalk location. The test installation will be tested in accordance with FM 5-592.