

Recommend Approval:	<i>[Signature]</i>	<i>2-8-12</i>	Maryland Department of Transportation State Highway Administration Office of Materials Technology MARYLAND STANDARD METHOD OF TESTS
	Assistant Division Chief	Date	
Approved:	<i>[Signature]</i>	<i>2/8/12</i>	GRAFFITI REMOVAL TEST OF ANTIGRAFFITI TREATMENT
	Division Chief	Date	
	<i>[Signature]</i>	<i>03/12/12</i>	MSMT 618
	Director	Date	

SCOPE:

This procedure is used to determine the effectiveness of antigraffiti coatings on portland cement concrete structures. Testing shall be conducted on the project; but antigraffiti treatment on wood and precast concrete structures may be tested at the manufacturer's plant. At the Contractor's request, panels that have been previously approved for texture by the Office of Landscape Architecture or Construction may be submitted to the Laboratory for testing and approval of antigraffiti treatment.

MATERIALS AND EQUIPMENT:

1. Graffiti Materials:
 - (a) An aerosol spray can of red enamel paint.
 - (b) An aerosol spray can of red lacquer paint.
 - (c) A permanent felt-tip red marker.
 - (d) A water-based felt-tip red marker.
2. A panel sent to the Laboratory for testing shall be a minimum of 2 ft². Certification stating that the panel has been approved for texture shall accompany the sample.
3. When laboratory testing is requested, submit a 1-gallon container of the antigraffiti coating conforming to the Specification for Antigraffiti Coatings and a 1-gallon container of the recommended removal solvent to the Laboratory along with the manufacturer's instructions for application. Label containers in conformance with the Specification for Antigraffiti Coatings.
4. Paper towels or clean cloths for use with the removal solvent.
5. A soft bristled cleaning brush. Hard or metal bristled brushes are not acceptable.
6. A gauge capable of measuring wet film thickness.
7. Adhesive tape for use in dividing the panel into test sections.

TEST PROCEDURE:

1. Panels shall be coated with the manufacturer's antigraffiti coating. The manufacturer's recommendations shall be followed for surface preparation, coating procedure, and micron thickness.
2. After the antigraffiti coating has cured for 7 days, or as recommended by the manufacturer, select an inconspicuous area of the panel or structure and, using adhesive tape, mark off four test sections measuring 6 x 6 in.
3. Using the specified paints, spray or mark an X until a thickness of 25 microns is obtained, as determined by the wet film thickness gauge. When using marker pens, mark an X and continue to cover until a uniform opaque finish is obtained.
4. Allow paints and markings on all test sections to dry for a minimum of 30 minutes or as recommended by the manufacturer.
5. Apply the graffiti removal solvent in conformance with the manufacturer's recommendations.
6. After the recommended soaking time, attempt to completely remove the X's in the manner recommended by the manufacturer. A maximum of 60 seconds shall be allowed for each test section.
7. Any test section having objectionable residue visible after the cleaning procedure shall be considered unsatisfactory and the product rejected. Testing for that product shall be concluded.
8. If the removal is considered satisfactory on all test sections after this test, repeat the testing cycle from Steps 3 through 6 on the same test sections.
9. Approval will be granted if no objectionable residue is visible after completion of two graffiti test removals.

REPORT:

1. Report the antigraffiti treatment as satisfactory if there is no objectionable residue visible after performing two testing cycles.
2. The report shall include the type of solvent that successfully removed each type of graffiti.
3. Report the antigraffiti treatment as unsatisfactory if there is any objectionable residue visible on the panel after the removal procedure.