



Designation: ~~D1793 – 92 (Reapproved 2008)~~ **D1793 – 92 (Reapproved 2015)**

## Standard Test Method for Water Spotting of Emulsion Floor Polishes<sup>1</sup>

This standard is issued under the fixed designation D1793; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### 1. Scope

1.1 This test method covers the determination of water spotting resistance of water emulsion floor polishes. The test method approximates the actual conditions of water spotting encountered in service.

1.2 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

### 2. Referenced Documents

2.1 *ASTM Standards:*<sup>2</sup>

**D1436** Test Methods for Application of Emulsion Floor Polishes to Substrates for Testing Purposes

### 3. Terminology

3.1 *Definitions:*

3.1.1 *water spotting*—any change in appearance of surface resulting solely from the action of cool water.

### 4. Significance and Use

4.1 This test method measures the ability of a floor polish to resist spotting by water. This test method may be used to measure the extent of damage by a large amount of water or in a separate method to measure the amount of damage by a small amount of water that has evaporated to dryness. Reference polishes should be used for comparison.

NOTE 1—The test method may induce slight whitening, color change, noticeable change in appearance, including removal of the film, which is caused by contact with water.

### 5. Apparatus

5.1 *Substrate*—The substrate to be used is vinyl composition tile (OVCT).<sup>3</sup>

5.2 *Distilled Water.*

5.3 *Pipet*, volumetric, 1-mL.

### 6. Preparation of Test Panel

6.1 Apply the emulsion floor polish on the black official vinyl composition tile panel in accordance with Method C (Manual Dip Method) of Test Methods **D1436**. After application, place the panel in a near vertical position and at the end of 10 min, wipe off the bead at the bottom of the panel and allow the panel to dry in a vertical position for 2 h at standard conditions of  $50 \pm 4\%$  relative humidity and  $23.9 \pm 1.1^\circ\text{C}$  ( $75 \pm 2^\circ\text{F}$ ). Apply a second coat in the same manner but reverse the panel so that the top is at the bottom. Drain in a near vertical position for 10 min, wipe off the bead, and continue drying in a vertical position at standard conditions for 24 h.

NOTE 2—The drying time, counted from the time of application of the second coat, may be varied from 24 h, but it should be remembered that some

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

<sup>3</sup> The sole source of supply of the apparatus known to the committee at this time is Official Vinyl Composition Tile panels may be purchased from the Chemical Specialties Manufacturers Assn., 1913 Eye St., N.W. Washington, DC 20006. If you are aware of alternative suppliers, please provide this information to ASTM Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend.