



Designation: D3758 – 95 (Reapproved 2003)

## Standard Practice for Evaluation of Spray-Buffer Products on Test Floors<sup>1</sup>

This standard is issued under the fixed designation D3758; 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 practice covers the comparison of the performance of spray-buff products on test floors against a reference material. Spray-buff products are to be used to maintain base floor-polish films. This technique is intended to be used on water-emulsion floor polishes with a floor machine not exceeding 95 lb (43 kg) in weight and with a rate of rotation of 350 rpm or less.

1.2 Gloss, heel marking, soil resistance, and slip resistance of the spray-buffed test panels are rated in comparison to test panels similarly maintained with a reference spray-buff product.

1.3 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.4 *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>

D523 Test Method for Specular Gloss  
D1455 Test Method for 60° Specular Gloss of Emulsion Floor Polish

2.2 *Chemical Specialties Manufacturers Association Test Methods:*

245-70 Comparative Determination Slip Resistance of Floor Polishes<sup>3</sup>

### 3. Terminology

3.1 *Definitions:*

<sup>1</sup> This practice is under the jurisdiction of ASTM Committee D21 on Polishes and is the direct responsibility of Subcommittee D21.04 on Performance Tests.

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at 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> Available from Chemical Specialties Manufacturers Assn., Inc., 1913 Eye Street, N. W., Washington, DC 20006. Test Methods and General Information, Waxes, Polishes, and Floor Finishes Div.

3.1.1 *water emulsion floor polish*—an emulsion-based polish in which water is the continuous or external phase.

3.1.2 *wax emulsion*—a water emulsion polish containing a predominance of natural or synthetic waxes, or both.

### 4. Significance and Use

4.1 Spray buff products are utilized for the maintenance of polished floors. This practice is for the evaluation of a spray buff product against a reference product. The procedure is a floor test utilizing a rotary-disc floor machine. This practice as currently written may or may not be applicable for machines in excess of 350 R.P.M.

### 5. Apparatus

5.1 *Floor Machine* of the single-disk type, fitted with a pad driver and a spray-buffing floor maintenance pad.

5.2 *Glossmeter*—The instrument and the reference standards shall conform to the requirements prescribed in Test Method D523, using an angle of reflection of 60°.

### 6. Description of Test Area

6.1 The preferred area is a corridor in normal traffic service exposed to nearly uniform traffic over the test area.

6.2 The preferred substrate is vinyl tile.

6.3 Divide the area into test sections at least 4 ft (1.2 m) in length and the full width of the corridor. Use one section for each test material in addition to the control section.

### 7. Preparation of Test Area

7.1 Completely strip the test area of dirt and old floor polish. Thoroughly rinse and dry before applying the base polishes.

7.2 Coat two test sections of the corridor with base polish. Maintain one test section with the test spray-buff product and the other section (control) with a reference spray-buff product.

7.2.1 Apply the base polish to the test section, using any suitable and controlled procedure in accordance with the manufacturer's recommendations.

7.2.2 Wait 1 h after the first coat has dried to touch before the application of a second coat. Wait 1 h after the second coat has dried to touch before the application of a third coat of polish.

7.3 In the instance of wax-emulsion polishes, machine buff the test section coated with the test wax and the reference materials with a new 00 steel wool pad or clean bristle brush