



Designation: D3052 – 87 (Reapproved 2003)

Standard Practice for Rating Water-Emulsion Floor Polishes¹

This standard is issued under the fixed designation D3052; 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 (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice covers the comparison of the performance of water-emulsion floor polishes on test floors against a reference material. It is applicable to the following types of polishes:

- 1.1.1 Wax emulsion polishes,
- 1.1.2 Nonbuffable emulsion polishes,
- 1.1.3 Detergent-resistant emulsion polishes, household type, and

1.1.4 Detergent-resistant emulsion polishes, industrial type.
1.2 Gloss, leveling, discoloration, traffic marking, slip resistance, and removal ease of these types of floor polishes is rated in comparison to a reference material. Where applicable, detergent resistance is also evaluated. This method is not to be considered as a recommended maintenance procedure.

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:*²

D523 Test Method for Specular Gloss

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

2.2 *CSMA Bulletin:*

245-70 Comparative Determination of Slip Resistance of Floor Polishes³

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

Current edition approved Aug. 28, 1987. Published October 1987. Originally published as D3052 – 72. Last previous edition D3052 – 82. DOI: 10.1520/D3052-87R03.

² 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.

³ Available from the Chemical Specialties Manufacturers Association, 1001 Connecticut Avenue, NW, Washington, DC 20036.

3. Significance and Use

3.1 When comparing different floor polishes for an actual field performance, it is important that all surfaces used be prepared in the same way. When this procedure is followed, variations in the test surfaces are minimized.

4. Apparatus

4.1 *Test Tile*, OVCT.⁴

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

4.3 *Floor Machine*.

5. Procedure

5.1 The preferred substrate shall be Official Vinyl Composition Tile.

5.2 The test floor shall include both dark (black) and light (white) colored tiles laid out so that one half of the panel is all white and the other half is all black.

5.3 The minimum test panel size for each polish tested shall be 3 ft (0.9 m) in width and 3 ft in length.

5.4 Prepare all of the test panels with scrub-cleaned new tiles, or strip completely of dirt and old wax, rinse thoroughly and dry before application of the test polishes. Under no circumstances should comparative tests be made on new versus old tiles. Similarly, where old tiles are employed, care should be taken to employ tiles or panels with approximately equivalent traffic history.

5.5 Mask a small portion of a black tile prior to polishing so as to provide an unpolished control area. The masking is to remain during the entire traffic period.

5.6 Take glossmeter readings on the clean and dry center four panels (two light tiles and two dark tiles) with a 60° glossmeter prior to application of the polish.

5.7 Apply the test polish and the reference (standard) polish equally to the same test panel in such a manner that each polish covers half of the black tiles and half of the white tiles. A typical panel is illustrated in Fig. 1. An alternative approach is to apply each polish to a separate panel.

⁴ Official Vinyl Composition Tile (OVCT) is available from the Chemical Specialties Manufacturers Association, 1001 Connecticut Avenue, NW, Washington, DC 20036.

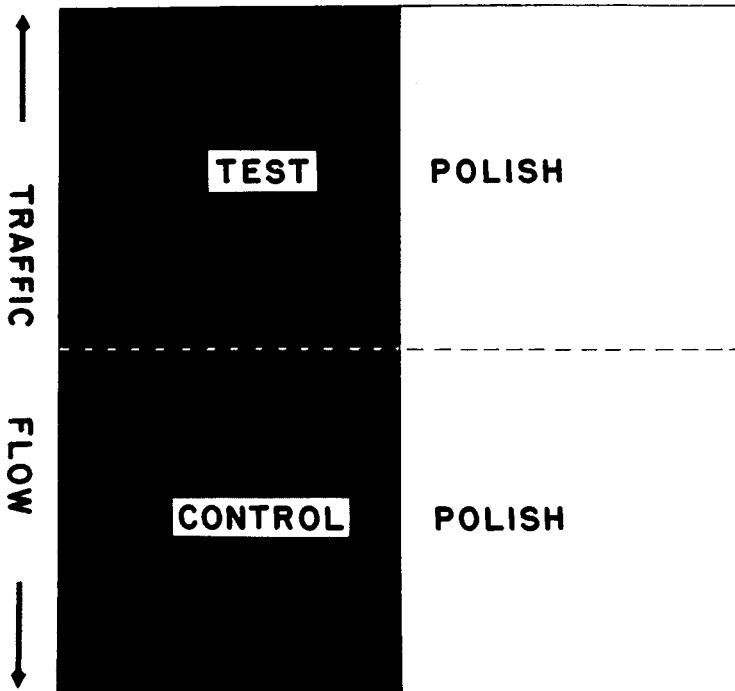


FIG. 1 Typical Floor Service Test Panel

TEST CONDITIONS

Date began _____ Date ended _____ Place _____

Type of Substrate used _____ Glossmeter Reading on Pre-stripped Surface _____

Remarks _____

Test Polish _____ Control Polish _____

TEST RESULTS

| | Observer | Fresh | 1 Day | 1st Cleaning | | 2nd Cleaning | | 3rd Cleaning | |
|----------------------|----------|-------|-------|--------------|-------|--------------|-------|--------------|-------|
| | | | | Before | After | Before | After | Before | After |
| GLOSS | 1 | | | | | | | | |
| | 2 | | | | | | | | |
| | 3 | | | | | | | | |
| | 4 | | | | | | | | |
| | Average | | | | | | | | |
| Test Glossmeter | | | | | | | | | |
| Control Glossmeter | | | | | | | | | |
| Range | | | | | | | | | |
| Scratch Resistance | 1 | | | | | | | | |
| | 2 | | | | | | | | |
| | 3 | | | | | | | | |
| | 4 | | | | | | | | |
| | Average | | | | | | | | |
| Range | | | | | | | | | |
| Scuff Resistance | 1 | | | | | | | | |
| | 2 | | | | | | | | |
| | 3 | | | | | | | | |
| | 4 | | | | | | | | |
| | Average | | | | | | | | |
| Range | | | | | | | | | |
| Slip Resistance | 1 | | | | | | | | |
| | 2 | | | | | | | | |
| | 3 | | | | | | | | |
| | 4 | | | | | | | | |
| | Average | | | | | | | | |
| Range | | | | | | | | | |
| Detergent Resistance | 1 | | | | | | | | |
| | 2 | | | | | | | | |
| | 3 | | | | | | | | |
| | 4 | | | | | | | | |
| | Average | | | | | | | | |
| Range | | | | | | | | | |
| Leveling | Observer | Fresh | | Removal Ease | | Observer | | * | |
| | 1 | | | | | | | | |
| | 2 | | | | | | | | |
| | 3 | | | | | | | | |
| | 4 | | | | | | | | |
| Average | | | | | | | | | |
| Range | | | | | | | | | |

Glossmeter reading on stripped tile _____

FIG. 2 Data Sheet for Evaluating Water-Emulsion Floor Polishes on Dark Substrate of Test Floors