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Standard Practice for Preparation of Paint-Roller Covers for Evaluation Preparation of Paint-Roller Covers for Evaluation of Architectural Coatings¹

This standard is issued under the fixed designation D 5069; 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.

^{ε1}Note—Editorial changes were made throughout in December 2002.

1. Scope

~~1.1 This practice describes the preparation or breaking-in of paint-roller covers for evaluation.~~

~~1.2 This practice is applicable to paint-roller covers having nap lengths up to ½ in. (13 mm).~~

~~1.3~~

~~1.1 This practice covers the preparation or breaking-in of paint-roller covers for evaluation.~~

~~1.2 This practice is applicable to paint-roller covers having nap lengths up to 13 mm (½ in.). Longer pile rollers can be adapted.~~

~~1.3 The values stated in SI 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 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

D 3924 Specification for ~~Standard~~ Environment for Conditioning and Testing Paint, Varnish, Lacquer, and Related Materials

3. Summary of Practice

3.1 Using the paint chosen for the evaluation, the paint-roller cover to be tested is repeatedly and generously loaded with paint and painted out over the same area of approximately 4 square feet (0.4 m²) until it is saturated with paint, that is, the paint-roller cover cannot pick up any more paint, nor apply any more paint to the area being used for break-in.

4. Significance and Use

4.1 Until a paint-roller cover is saturated with paint, only part of the paint loaded onto the paint-roller cover can be transferred to a surface being painted. The remainder of the paint is absorbed into the fabric of the paint-roller cover. The amount of paint absorbed by a paint-roller cover is inversely proportional to the amount already present within the paint-roller cover. By saturating the paint-roller cover before testing, quantitative inaccuracies of the amount of paint delivered to a surface are eliminated.

4.1.1 Using a saturated paint-roller cover enables the user to apply paint at controllable spreading rates.

4.1.2 Using a saturated paint-roller cover affords reproducibility, when repeating a test.

5. Apparatus

5.1 *Paint Tray.*

5.2 *Paint Roller Frame,* of the same size as the paint-roller cover being prepared.

6. Materials

6.1 *Paint,* to be used in test.

6.2 *Primed or Smooth Surface,* to be used for the roller-cover break-in.

¹ **Precision and Bias** This practice is under the jurisdiction of ASTM Committee D01 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.61 on Paint Application Tools.

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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.