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Designation: D 4752 - 03

Standard Test Method for Measuring MEK Resistance of Ethyl Silicate (inorganic) Zinc-Rich Primers by Solvent Rub¹

This standard is issued under the fixed designation D 4752; the number immediately following the designation indicates the year of original approval or the year of revision; the last two digits of the number indicate the year of last reapproval. A superscript letter indicates an editorial change since the last revision or approval.

- 1. Scope**
 - 1.1 This test method describes a solvent rub technique for assessing the MEK resistance of ethyl silicate (inorganic) zinc-rich primers. The MEK resistance of some two-component ethyl silicate zinc-rich primers has been shown to correlate well with the rate of the primer as determined by diffuse reflectance infrared spectroscopy.² This technique can be used in the laboratory, field, or on the fabricating shop. Practice D 4402 is the preferred method for organic coatings.
 - 1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.
 - 1.3 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. Specific hazard statements are given in Section 6. Consult supplier's Material Safety Data Sheet(s) for specific hazard information relating to the solvent used.
- 2. Referenced Documents**
 - 2.1 ASTM Standards:
 - D 708 Specification for Methyl Ethyl Ketone³
 - D 1505 Test Methods for Nondestructive Measurement of Dry Film Thickness of Nonaqueous Coatings Applied to a Formed Base⁴
 - D 1509 Test Method for Nondestructive Measurement of Dry Film Thickness of Nondestructive Coatings Applied to a Nonformed Metal Base⁵
 - D 4139 Test Methods for Measurement of Dry Film Thickness of Organic Coatings⁶
- 3. Terminology**
 - 3.1 *intentional omission of terms specific to this standard:*
 - 3.1.1 double rub—the act of rubbing a solvent saturated cloth in one complete forward and backward motion over a coated surface.
- 4. Significance and Use**
 - 4.1 Ethyl silicate zinc-rich primers cure by the reaction of the vehicle with moisture, thereby providing a harder, less relative humidity and temperature soft during the day, so does the rate of cure. A certain minimum degree of cure is necessary prior to topcoating. It has been shown that the degree of cure of ethyl silicate zinc-rich primers can be measured by the chemical changes occurring using diffuse reflectance infrared spectroscopy.² This solvent rub test has been shown to correlate well with the infrared spectroscopic results of some two-component ethyl silicate inorganic zinc systems.
 - 4.2 The cure rating required for the application of specific topcoats must be applied prior to the test method in used.
- 5. Reagents and Materials**
 - 5.1 *inert Ethyl Ketone (MEK)*, in accordance with Specification D 708.
 - 5.2 *Charcolon*, 100% cotton mesh size grade 28 by 24 approximately 100 to 200 mm (4 to 8 in.) and containing in color to the coating being evaluated, or other mutually agreed upon cloth.
 - 5.3 *Source cloth*.
 - 5.4 *proper Safety Equipment*, as determined from the solvent MSDS; for example, solvent resistant gloves, respirator.
- 6. Procedure**
 - 6.1 Select areas on the primer surface at least 150 mm (6 in.) long on which to rub the cloth. Clean the surface with tap water or dry cloth to remove loose material.

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