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Standard Classification for Reporting Paint Film Failures Characteristic of Exterior Latex Paints¹

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1. Scope

1.1 This classification covers descriptions of properties that may be observed in weathered latex paint films. These descriptions should be used in reporting the condition of such paint films.

NOTE 1—In inspecting weathered exterior latex paints, defects or failures in the films may be observed that are not described in ASTM methods for evaluating the deterioration of exterior paints of the linseed-oil type.

2. Types of Defects

2.1 The following types of defects of exposed latex paint films are recognized:

2.1.1 *Efflorescence*, characterized by a commonly white,

nonuniform powdery incrustation not readily removed by wiping. Usually it cannot be removed with water only but can be removed with dilute mineral acid.

2.1.2 *Mottling (or Blotching)*—The presence of irregularly shaped and randomly distributed areas of nonuniform appearance in color, gloss, or sheen.

2.1.3 *Water Spotting*—Nonuniformities in color, gloss, or sheen in the shape of spots or streaks, caused by drops or rivulets of water.

2.1.4 *Crawling*—Defect in which the wet film recedes from small areas of the substrate (usually caused by insufficient wetting) leaving those areas uncoated.

2.1.5 *Pinholing*—The presence of a series of fine holes or voids in the film.

2.1.6 *Mud-Cracking*, characterized by an irregular broken network of cracks in the film.

3. Keywords

3.1 exterior paints/coatings; latex paints

¹ This classification is under the jurisdiction of ASTM Committee D-1 on Paint and Related Coatings, Materials, and Applications, and is the direct responsibility of Subcommittee D01.42 on Architectural Finishes.

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