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Standard Specification for Artists' Acrylic Dispersion Paints[1]

This standard is issued under the fixed designation D5098; 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 specification establishes requirements for composition, physical properties, performance, and labeling of artists' acrylic emulsion paints.

1.2 This specification covers pigments, vehicles, and additives. Requirements are included for pigment identification, lightfastness, bleeding, consistency, and drying time.

1.3 Table 1 lists some pigments meeting the lightfastness requirements in this specification. In order to identify other pigments that meet these requirements, instructions are given for test specimen preparation. Test methods for determining relative lightfastness are referenced.

1.4 The values stated in SI units are to be regarded as standard. The values given in parentheses are for information only.

1.5 *This pertains only to the test method section found in Sections 6 and 7, and Appendix X2. 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]

D185 Test Methods for Coarse Particles in Pigments
D279 Test Methods for Bleeding of Pigments
D387 Test Method for Color and Strength of Chromatic Pigments with a Mechanical Muller
D476 Classification for Dry Pigmentary Titanium Dioxide Products
D602 Specification for Barium Sulfate Pigments
D1210 Test Method for Fineness of Dispersion of Pigment-Vehicle Systems by Hegman-Type Gage
D1640 Test Methods for Drying, Curing, or Film Formation of Organic Coatings
D3168 Practice for Qualitative Identification of Polymers in Emulsion Paints
D4236 Practice for Labeling Art Materials for Chronic Health Hazards
D4303 Test Methods for Lightfastness of Colorants Used in Artists' Materials
D4838 Test Method for Determining the Relative Tinting Strength of Chromatic Paints
D4941 Practice for Preparing Drawdowns of Artists' Paste Paints
E284 Terminology of Appearance

3. Terminology

3.1 *Definitions:*

3.1.1 *colour index name, n*—consists of the category (type of dye or pigment), general hue, and an assigned number given to a colorant in the Colour Index[3] as an international identification system.

3.1.1.1 *Discussion*—For example, the Colour Index Name of one phthalocyanine blue pigment is Pigment Blue 15 (PB 15).

3.1.2 *Colour Index Number, n*—a five-digit number given in the Colour Index that describes the chemical constitution of a colorant.

3.1.2.1 *Discussion*—For example, the Colour Index Number of one phthalocyanine blue pigment is 74160.

3.1.3 Appearance terms used in this specification are defined in Terminology E284.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *acrylic emulsion paint, n*—paint containing a stable aqueous dispersion of polymers or copolymers of acrylic acid, methacrylic acid, esters of these acids, or acrylonitrile; sometimes termed latex, acrylic latex, or polymer emulsion paint.

3.2.2 *glycols, n*—general term for dihydric alcohols used to provide freeze-thaw stability in acrylic and other water-based vehicle systems.

[1] This specification is under the jurisdiction of ASTM Committee D01 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.57 on Artist Paints and Related Materials.

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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.

[3] *Colour Index*, 3rd ed., 5 Vols and Revisions. The Society of Dyers and Colourists, London, 1971–75. Available from the American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709.

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