



Designation: ~~D3732 – 82 (Reapproved 2011)~~ D3732 – 82 (Reapproved 2017)

Standard Practice for Reporting Cure Times of Ultraviolet-Cured Coatings¹

This standard is issued under the fixed designation D3732; 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.

This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope

1.1 This practice applies to all coatings cured by ultraviolet energy.

1.2 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

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.*

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

[D658 Test Method for Abrasion Resistance of Organic Coatings by Air Blast Abrasive](#) (Withdrawn 1996)³

[D968 Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive](#)

[D1474 Test Methods for Indentation Hardness of Organic Coatings](#)

[D2197 Test Method for Adhesion of Organic Coatings by Scrape Adhesion](#)

[D2336 Guide for Specifying Factory Applied Wood Coatings](#) (Withdrawn 2008)³

[D2793 Test Method for Block Resistance of Organic Coatings on Wood Panel Substrates](#)

[D2794 Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation \(Impact\)](#)

[D3023 Practice for Determination of Resistance of Factory-Applied Coatings on Wood Products to Stains and Reagents](#)

[D3281 Test Method for Formability of Attached Organic Coatings with Impact-Wedge Bend Apparatus](#) (Withdrawn 1995)³

[D3359 Test Methods for Rating Adhesion by Tape Test](#)

[D3363 Test Method for Film Hardness by Pencil Test](#)

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *cure, n*—the condition of a coating after conversion to the final state of cure as measured by tests generally related to end-use performance and mutually agreeable to supplier and purchaser.

3.1.2 *ultraviolet curing, n*—conversion of a coating from its application state to its final use state by means of a mechanism initiated by ultraviolet radiation generated by equipment designed for that purpose.

4. Significance and Use

4.1 This practice provides a guide whereby all pertinent variables relating to the ultraviolet cure of a coating are described.

¹ 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 [D01.55](#) on Factory Applied Coatings on Preformed Products.

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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~~ standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.