DOCKET
05-BSTD-1
DATE APR 26 2006
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Cover Sheet
ASTM Standards - Additions to Docket # 05-BSTD-1
Submitted by Elaine Hebert, California Energy Commission

The attached eight (8) descriptions and scopes of standards from ASTM (American Society for Testing and Materials) are hereby submitted to the California Energy Commission's Docket # 05-BSTD-1 on roof coatings.

The full ASTM standards are available for a fee from ASTM via its website www.astm.org or by phone at 610/832-9585.

The titles of these eight ASTM standards and their page numbers in the attached are as follows:

American Society for Testing and Materials (ASTM) C836-05, *Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course*..... page 1

American Society for Testing and Materials (ASTM) C1583-04, *Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method)*. ..... page 3

American Society for Testing and Materials (ASTM) D2370-98 (2002), *Standard Test Method for Tensile Properties of Organic Coatings*. ..... page 5

American Society for Testing and Materials (ASTM) D522-93a (2001), *Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings*. ..... page 7

American Society for Testing and Materials (ASTM) D3468-99, *Standard Specification for Liquid-Applied Neoprene and Chlorosulfonated Polyethylene Used in Roofing and Waterproofing*. ..... page 9

American Society for Testing and Materials (ASTM) D5870-95 (2003), *Standard Practice for Calculating Property Retention Index of Plastics*. ..... page 11

American Society for Testing and Materials (ASTM) D6083-05e1, *Standard Specification for Liquid Applied Acrylic Coating Used in Roofing*. ..... page 13

American Society for Testing and Materials (ASTM) D6694-01, *Standard Specification for Liquid-Applied Silicone Coating Used in Spray Polyurethane Foam Roofing*. ..... page 15

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Description | Related Products

1.1 This specification describes the required properties and test methods for a cold liquid-applied elastomeric-type membrane, one or two component, for waterproofing building decks and walls subject to hydrostatic pressure in building areas to be occupied by personnel, vehicles, or equipment. This specification applies only to a membrane system that will be covered with a separate wearing course, traffic course, or backfill.

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Note 1â€"See Guide C 898 and Guide C 1471 for proper application of membrane.

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

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.

1.3 There are no ISO standards similar or equivalent to this ASTM standard.

Keywords: crack bridging; membrane; waterproofing; 91.100.50; 91.100.50

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Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method)
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1.1 This test method is suitable for both field and laboratory use to determine one or more of the following:

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1.1.1 The near-surface tensile strength of the substrate as an indicator of the adequacy of surface preparation before application of a repair or overlay material.

1.1.2 The bond strength of a repair or an overlay material to the substrate.

1.1.3 The tensile strength of a repair or overlay material, or an adhesive used in repairs, after the material has been applied to a surface.

1.2 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the 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.

Keywords: adhesives; overlay materials; pull-off tensile strength; pull-off test; repair materials; tensile bond strength; 91.080.40

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Description | Related Products

1. Scope

1.1 This test method covers the determination of the elongation, tensile strength, and stiffness (modulus of elasticity) of organic coatings when tested as free films.

1.2 This standard does not purport to address all of the safety problems, if any, associated with

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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 7.

Keywords: elongation; organic coatings; stiffness; tensile properties; tensile strength; 25.220.60

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REPLACED by ASTM D522-93a(2001)

ASTM D522-93a

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Description | Related Products

1.1 These test methods cover the determination of the resistance to cracking (flexibility) of attached organic coatings on substrates of sheet metal or rubber-type materials.

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

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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.*

Keywords: cracking; flexibility; resistance-cracking

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1. Scope

1.1 This specification covers liquid-applied neoprene and chlorosulfonated polyethylene synthetic rubber solutions suitable for use in roofing and waterproofing.

1.2 The following precautionary caveat pertains only to the test method portion, Section 9, of this

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specification: 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.

Keywords: chloroprene; coating; hypalon; liquid-applied; roofing; 91.100.50

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1.1 This practice covers procedures for the calculation of a property retention index (PRI) of thermoplastic and thermoset plastics after exposure to thermal aging, natural or artificial accelerated weathering, or chemical exposures.

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1.2 This practice is not intended to establish a fixed procedure for conducting the exposure test, but it is intended to provide a set of specific procedures used to calculate the retention index of a characteristic property of the material after it has been exposed. Selection of the specific exposure test conditions depends on the material being tested and the property being measured. It is up to the user to determine which exposure test conditions are most relevant to the specific material and the service condition being used. The exposure test used must be conducted in accordance with conditions described in specific exposure standards.

1.3 This practice does not describe procedures for sampling the materials to be tested. These procedures are described in the standards and specifications applicable to the material being evaluated.

1.4 The procedure used to calculate the PRI depends on whether the test used to characterize the materials being exposed is destructive or nondestructive. The PRI can be useful in describing short-term mechanical, electrical, and other properties of plastics at specified temperatures after the materials have been subjected to an exposure test.

1.5 *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.*

Note 1 - There is no similar or equivalent ISO standard. ISO DIS 11248 is significantly different since it pertains only to thermosetting resins.

Keywords: accelerated test; aging; exposure; weathering; 83.080.20

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1.1 This specification covers liquid-applied water-dispersed acrylic latex elastomeric protective roof coatings.

1.2 This specification does not provide guidance for application.

1.3 The values stated in SI units are to be regarded as the standard. The values given in

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parentheses are for information only.

1.4 *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.*

Keywords: acrylic; elastomeric coating; roof; 25.220.60; 91.100.50; 25.220.60; 91.100.50; 25.220.60; 91.100.50

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Description

1. Scope

1.1 This specification covers a liquid-applied solvent dispersed elastomeric coating used as a roofing membrane for spray polyurethane foam (SPF) insulation whose principal polymer in the dispersion contains more than 95 % silicone.

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1.2 This specification does not provide guidance for application.

1.3 The following precautionary caveat pertains only to the test method portions, Sections 5 and 6.

1.4 SI units are used throughout this document. Inch-pound units are in parentheses.

This standard may involve hazardous materials, operations, and equipment.

1.5 *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 requirements prior to use.*

Keywords: elastomeric coating; roof; silicone; spray polyurethane foam; 83.100; 91.060.20

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