



Designation: D6950 – 04

# Standard Practice for Application of Heat Weldable Atactic Polypropylene (APP) Modified Bituminous Waterproofing Membranes Systems for New Building Decks<sup>1</sup>

This standard is issued under the fixed designation D6950; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This practice covers the minimum application recommendations for heat weldable atactic polypropylene (APP) modified bituminous systems used as part of a new horizontal waterproofing system over occupied spaces of buildings where covered by a separate wearing course.

1.2 For the purpose of this practice, the substrate shall be structurally sound, sloped to drain, able to accept the weight of the membrane and other system materials, and meet the local building code requirements. Similarly, all components of the waterproofing system are assumed to comply with any federal, state, and local environmental regulations that may be in effect at the time of installation. Expansion joints, insulation, drainage layers, protection boards, filter sheets, and the wearing surfaces are beyond the scope of this practice.

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

## 2. Referenced Documents

2.1 *ASTM Standards:*<sup>2</sup>

- D41 Specification for Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing
- D1079 Terminology Relating to Roofing and Waterproofing
- D4586 Specification for Asphalt Roof Cement, Asbestos-Free

<sup>1</sup> This practice is under the jurisdiction of ASTM Committee D08 on Roofing and Waterproofing and is the direct responsibility of Subcommittee D08.22 on Waterproofing and Dampproofing Systems.

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<sup>2</sup> 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.

- D5295 Guide for Preparation of Concrete Surfaces for Adhered (Bonded) Membrane Waterproofing Systems
- D5898 Guide for Details for Adhered Sheet Waterproofing
- D5957 Guide for Flood Testing Horizontal Waterproofing Installations
- D6222 Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using Polyester Reinforcements
- D6223 Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements
- D6451 Guide for Application of Asphalt Based Protection Board
- D6506 Specification for Asphalt Based Protection Board for Below-Grade Waterproofing

2.2 *American Concrete Institute Standard:*

- ACI 301 Specifications for Structural Concrete for Buildings<sup>3</sup>

2.3 *FMRC Standard:*

- FM 4470 Approval Standard, Class Roof Covers, latest edition; where applicable for corrosion resistant components<sup>4</sup>

## 3. Terminology

3.1 *Definitions:*

3.1.1 For definition of terms, see Terminology D1079.

3.1.2 *construction joint*—a butt joint formed in a structural slab in order to end one pour and start another pour later. The joint is usually a cold joint and maybe held together with reinforcing steel in the slab, or the steel may be discontinuous by design.

3.1.3 *heat welding*—the attachment and joining of the modified bitumen membrane sheet by heating its surface with a torch, hot air, or other means of direct thermal contact.

<sup>3</sup> Available from American Concrete Institute, P.O. Box 9094, Farmington Hills, MI 48333.

<sup>4</sup> Available from Factory Mutual Research, 11511 Boston-Providence Turnpike, P.O. Box 9102, Norwood, MA 02062-9102.