



Standard Guide for Application of Fully Adhered Vulcanized Rubber Sheets Used in Waterproofing¹

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€¹ NOTE—Editorially switched from English dominant to SI dominant.

1. Scope

1.1 This guide provides information to assist the specifier in developing a specification for the application and protection of fully adhered EPDM (elastomeric terpolymer synthesized from ethylene, propylene and diene monomer), butyl, and neoprene vulcanized rubber sheets to be installed on concrete substrates.

1.2 The structure and the deck should be evaluated, and found to be mechanically sound, able to accept the weight of the sheet and overburden, and meet the local building code requirements.

1.3 The deck should be sloped to drain with a drainage media or layer above the membrane. The drainage media or layer is not addressed in this guide.

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:

- D 1079 Terminology Relating to Roofing, Waterproofing, and Bituminous Materials²
- D 5295 Guide for Preparation of Concrete Surfaces for Adhered (Bonded) Membrane Waterproofing Systems²
- D 5898 Guide for Standard Details for Adhered Sheet Waterproofing²
- D 5957 Guide for Flood Testing Horizontal Waterproofing Installation²

3. Terminology

3.1 For definitions of terms used in this guide, refer to Terminology D 1079.

4. Delivery of Materials

4.1 Deliver materials in producer or system supplier's

unopened containers and packages.

4.2 All materials or material packaging must be clearly marked in a weather resistant manner with type, stock or lot number, and other pertinent information, for example, thickness, size, weight, producer or system supplier's name, ASTM specification, and so forth.

5. Storage and Handling

5.1 Store sheet materials in a horizontal position, elevated off the ground and under protective coverings to prevent contamination of the sheet material surfaces.

5.2 Store sheet materials in a manner to prevent producer or system supplier's markings from being destroyed.

5.3 Store adhesives and sealants in tightly closed original containers in a temperature controlled environment between 16 and 27°C (60 and 80°F) for three days before using.

5.4 Store splicing cleaners, primers, and adhesives in original closed containers in a manner that will not pose a fire hazard.

6. Safety Precautions

6.1 Material Safety Data Sheets (MSDS) shall be available for the products that require them.

6.2 Adhesives, cleaning agents, and other solvent bearing materials may be flammable.

6.3 The following safety precautions include, but are not limited to the following: no smoking when using flammable materials; do not use flammable material near an open flame or equipment that may produce sparks; and avoid breathing solvent vapors and vent solvent fumes when in unventilated and confined areas. Refer to the MSDS for further safety precautions.

7. Environmental Conditions

7.1 Conditions for installation can proceed when agreed upon by the owner, producer or system supplier, and installer.

7.2 Do not attempt to install or bond sheet material to substrate or prepare seam splices in weather conditions such as dew, fog, rain, snow, frost, high winds, or temperatures below 4°C (40°F).

7.3 Do not expose membrane and accessories to a constant temperature in excess of 82°C (180°F).

¹ This guide is under the jurisdiction of ASTM Committee D08 on Roofing, Waterproofing, and Bituminous Materials and is the direct responsibility of Subcommittee D08.22 on Waterproofing and Dampproofing Systems.

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² *Annual Book of ASTM Standards*, Vol 04.04.