



## SECTION 1055

### CONCRETE CURING MATERIAL

**1055.1 Scope.** This specification covers material to be used for the purpose of curing concrete.

#### **1055.2 Liquid Membrane-Forming Curing Compounds.**

**1055.2.1 Acceptance.** All material under this specification shall be obtained from a source identified on the PAL designated for this specification. If the manufacturer is different from the source supplying the material, the manufacturer shall also be listed. All material under this specification will be inspected and accepted in accordance with [Sec 106](#).

#### **1055.2.2 Material.**

**1055.2.2.1 General.** Water retention properties for all curing compounds shall be determined by ASTM Test Method C 156. The vehicle class of all curing compounds shall be Class A.

**1055.2.2.2 Type 1-D Curing Compounds.** Type 1-D liquid membrane-forming curing compounds shall be in accordance with ASTM C 309 for Type 1-D, clear or translucent with fugitive dye.

**1055.2.2.3 Type 2 Curing Compounds.** Type 2, liquid membrane-forming curing compounds shall be in accordance with ASTM C 309 for Type 2, white pigmented.

**1055.2.2.4 Bridge Curing Compounds.** Bridge curing compounds shall be liquid membrane-curing compounds in accordance with ASTM C 309 for Type 1-D or Type 2 and shall be designated to be dissipating. All bridge curing compounds shall be manufactured such that the curing compounds may be removed prior to dissipation.

#### **1055.2.3 Documentation.**

**1055.2.3.1 Certification For Qualification.** Prior to use and in addition to the required PAL documentation, the manufacturer shall submit certification to Construction and Materials, setting forth the brand name and designation, the composition or description of the curing material, the manner in which the material will be identified on the containers, and shall list typical values of current tests for consistency, drying time, reflectance and moisture retention.

**1055.2.3.2 Additional Certification.** Certification for bridge curing compounds shall include a statement that the product is manufactured to dissipate. The certification shall specify the method by which removal of the compound prior to dissipation or removal of residual material from the surface can be accomplished.

**1055.2.3.3 Shipment Documentation.** For each shipment of material, the source shall maintain the manufacturer's certification and test results showing that the product is in accordance with this specification. The manufacturer's certification and test results shall be made available upon request.

### **1055.3 Other Concrete Curing Material.**

**1055.3.1 Acceptance.** All material under this specification shall be obtained from a source identified on the PAL designated for this specification. All material under this specification will be inspected and accepted in accordance with [Sec 106](#).

#### **1055.3.2 Material.**

**1055.3.2.1 Waterproof Paper.** Waterproof paper shall be in accordance with AASHTO M 171.

**1055.3.2.2 Polyethylene Sheeting.** Polyethylene sheeting shall be in accordance with [Sec 1058](#) for curing Portland cement concrete.

**1055.3.2.3 White Burlap-Polyethylene Sheeting.** White burlap-polyethylene sheeting shall be in accordance with AASHTO M 171.

**1055.3.2.4 Burlap and Mats of Jute or Cotton.** Burlap shall be fabric made from jute or other suitable fibers. Jute mats shall consist of two plies of burlap stitched together to maintain the shape and stability of the unit. Cotton mats shall consist of filler or cotton batts covered with unsized cloth or burlap, and tufted or stitched to maintain the shape and stability of the unit. Burlap and mats shall, in the judgment of the engineer, be of such construction and in such a condition as required to adequately maintain free moisture on the surface of the concrete with the type of system being used to provide the water. Material shall be free from deleterious matter harmful to concrete.

**1055.3.3 Documentation.** The distributor shall maintain certification that the material supplied is in accordance with these specifications. The certification shall be made available upon request.