

912-M-055 LIQUID MEMBRANE FORMING COMPOUNDS

(Adopted 05-21-20)

The Standard Specifications are revised as follows:

SECTION 912, BEGIN LINE 21, DELETE AND INSERT AS FOLLOWS:

(e) Liquid Membrane Forming Compounds

~~These compounds shall be in accordance with ASTM C 309, type 2, except the drying time requirement will be determined on a glass surface.~~ *Materials shall be selected from the Department's list of Liquid Membrane Forming Compounds.*

Storage of liquid membrane forming compounds shall be in accordance with the manufacturer's recommendations. Compounds shall be kept from freezing and shall not be applied when the ambient temperature is less than 40°F. Compounds that are more than one year past the date of manufacture shall not be used.

Products may be added to the Department's list of approved materials by completing the requirements in ITM 806, Procedure F. Testing shall be performed by a recognized independent laboratory approved by NTPEP. In order to maintain approval, the manufacturer shall submit an annual recertification letter to the Department by January 1 of each year. The manufacturer shall also submit a type A certification for a single batch every four months to the Office of Materials Management.

1. Wax-Based, White Pigmented

These compounds shall meet or exceed requirements of ASTM C 309, Type 2, Class A, when tested in accordance with ASTM C 156.

2. Resin-Based, White Pigmented

These compounds shall be in accordance with ASTM C 309, Type 2, Class B, 100% Poly-alpha-methylstyrene, PAMS, resin with the following exceptions:

<i>PAMS Curing Compound Properties</i>		
<i>Physical Tests</i>	<i>Specification</i>	<i>Requirement</i>
<i>Total solids, % by weight of compound</i>	<i>ASTM D 2369</i>	<i>≥ 42</i>
<i>Reflectivity, % in 72 h</i>	<i>ASTM E 1347</i>	<i>≥ 65</i>
<i>Loss of water, kg/m² in 24 h</i>	<i>ASTM C 156</i>	<i>≤ 0.15</i>
<i>Loss of water, kg/m² in 72 h</i>	<i>ASTM C 156</i>	<i>≤ 0.40</i>
<i>Infrared Spectrum, vehicle</i>	<i>Match reference IR scan</i>	<i>100% poly-alpha-methylstyrene</i>
<i>V.O.C. Content, g/L</i>	<i>326 IAC 8-15</i>	<i>≤ 350</i>
<i>Long-Term Settling Test, ml/100 ml in 72 h</i>	<i>NTPEP</i>	<i>≤ 2.0</i>

Samples of PAMS curing compound may be obtained randomly for verification at the point of incorporation into the work in accordance with 106.02. Verification testing will include:

1. Total Solids

2. *Reflectance*
 3. *Long-Term Settling Test.*
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