



Department of Design and Construction

SPECIFICATION BULLETIN

SB

25-007

Title: **CURING MATERIALS**

Prepared:

8/22/2025

Mohammad Mahmud, P.E.
Director, Specifications

Date

Approved:

8/22/2025

How Sheen Pau, P.E.
Associate Commissioner – Infrastructure Design

Date

APPLICABILITY:

- This Specification Bulletin (SB) is effective for projects advertised on or after 8/29/2025.

SUPERSEDEENCE:

- This SB supersedes the following SBs: **None.**

ATTACHMENTS:

- Section 2.14 (1 page)

REVISIONS TO THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION STANDARD HIGHWAY SPECIFICATIONS, DATED 5/16/2022:

All references contained below are to the New York City Department of Transportation Standard Highway Specifications, Dated May 16, 2022. Said Standard Specifications are hereby revised as follows:

- Refer** to Section 2.14 – Curing Materials
Delete in its entirety Section;
Substitute the revised Section in Attachment 1 (1 page)

For questions regarding this bulletin, please contact Richard Jones, jonesri@ddc.nyc.gov.

SECTION 2.14 – Curing Materials

2.14.1. This section describes membrane curing materials.

2.14.2. (A) Membrane curing must be one of the following types:

Type 1-D, Clear or translucent with fugitive dye that does not cause stain, or any discoloration to the finished concrete shall be used at the rate of one hundred fifty (150) square feet per gallon or as recommended by the manufacturer, whichever is higher. It shall be sprayed on sidewalks, curbing, walks and other exposed concrete surfaces.

Type 2, White Pigmented. Shall be sprayed at the rate of two hundred (200) square feet per gallon or as recommended by the manufacturer, whichever is higher. It shall be used on Portland cement concrete pavements.

Type 4, Bituminous. Shall be sprayed at the rate of one hundred (100) square feet per gallon or as recommended by the manufacturer, whichever is higher. It shall be used on all concrete roadway base.

(B) Type shall be as specified. All curing compounds shall be ready for immediate use without any alteration and be sprayed prior to the hardening of the concrete and within five minutes of texturing the concrete.

2.14.3. (A) Membrane curing materials Type 1-D shall comply with ASTM Designation C309 and C1315; Type 2 shall comply with ASTM C309. Type 1-D must consist of acrylic copolymer and penetrating silane sealer, and must meet the Test Data in Table 1.

Table 1 - Test Data

Test Type	Test Criteria
Depth of Penetration	Minimum 0.15" to 0.23"
ASTM C642-Water Absorption Reduction in Hardened Concrete	Minimum 80% to 90%

(B) Type 4, Bituminous Curing Material, shall comply with the requirements of **Section 2.03**, Grade RC-70, Liquid Asphalt, or **Section 2.04**, Type RS-1, Emulsified Asphalt. RS-1 shall be used when the ambient temperature is 40^o Fahrenheit and over. RC-70, Liquid Asphalt, shall be used when ambient temperature is below 40^o Fahrenheit.

2.14.4. The concrete shall be cured in such a manner as to give a non-glaring surface by an application of curing material. .

Curing material shall be applied by means of approved spraying equipment as a fine mist or spray in such manner as not to mar the surface and to form a continuous, uniform water-impermeable film. The membrane shall remain intact for a minimum of seven (7) days.

For pavement applications use atomizing mechanical sprayers capable of exerting consistent pressure without hand pumping that are equipped with tank agitators to continuously mix the curing compound. Nozzles with spray shields must be used to prevent drift. Nozzles must be flushed daily before use.

One coat of curing compound using approved equipment is permitted, if the coverage secured is even and satisfactory to the Engineer. On any work where the coverage is uneven or is, for any reason, unsatisfactory to the Engineer, application of additional coating material is required in satisfaction to the Engineer.