

VIRGINIA DEPARTMENT OF TRANSPORTATION

MATERIALS DIVISION

MEMORANDUM

GENERAL SUBJECT: Manual of Instructions Chapter II Section 204.15 & 205	NUMBER: MD 430-20
SPECIFIC SUBJECT: Revise section 204.15 & 205 to better define the procedures required for sampling of Epoxy-Resin Systems.	DATE: 1/13/2020
	SUPERSEDES:
APPROVED:	Charles A. Babish, PE State Materials Engineer Approved: _____

EFFECTIVE DATE

This memorandum is effective June 22, 2020.

PURPOSE

This Memorandum notifies the users of the VDOT's Materials Division's Manual of Instructions, has been revised. This revision has more specific instructions on the sampling of materials listed in section 204.15 and 205 (15).

Changes are **Shaded**

PROCEDURES

Sec. 204.15 Epoxy Resins

This section describes acceptance procedures for epoxy-resin systems stated in Road and Bridge Specification 212, 223, and 243.

Powdered epoxy-resin systems must be on Approved List No. 10 for use on VDOT projects.

Liquid epoxy-resin systems, including epoxy loop sealant for use in traffic signals and conforming to R& B Specification 212, are accepted on a project basis and will be sampled, tested, and accepted or rejected on a lot basis. For small quantity use of less than 15 gallons of system on a project acceptance shall be by manufacturer certification as stated in R&B Specification 243.04. **The**

certification shall consist of a statement by the manufacturer that Components A and B have been sampled and tested according to the requirements in section 243 of the Road and Bridge Specifications book. The certification shall be signed by an authorized agent of the manufacturer and contain actual results of tests performed.

A VDOT representative will sample at least one quart (or one liter) of the lesser component and enough of the larger component for proper mixing from vats per lot of epoxy. Epoxy that is packaged in gallon cans can be sent in for testing in the gallon can. A lot shall be the maximum volume the vat can contain. Epoxy loop sealant, for use in traffic signals and conforming to Sec. 212, Road and Bridge Specifications, shall be tested in the Central Office Laboratory, and shall likewise be sampled as outlined herein. The sample will be submitted to the VDOT Materials Division Central Office Laboratory for testing. The batch number shall be marked with the sample shipment; separate batch numbers for components shall also be clearly marked. The manufacturer will determine for the sampler which component batches are to be mixed together. Any different epoxy-system combination from different batches will represent a new batch and will require a separate sample. Batch numbers can only be used once for one component. The total quantity of Epoxy shall also be verified to the batch numbers being sampled. The total quantity of batches cannot be more than the total quantity. Only containers on hand can be used to figure the total quantity.

A random container must be chosen from the containers on hand. Contents being sampled should be mixed thoroughly before sampling. Samples shall be shipped in clean cans, each component in a separate can and shall contain the following information clearly labeled on the containers: (1) identity of component, (2) type, (3) mixing directions ratio, (4) usable temperature range, (5) name of Manufacturer, (6 4) batch number, (7 5) date of packaging sampled, (8) pigmentation if any, and (9) quantity contained therein in lbs. (kg) and/or gals (L). The most current SDS must accompany the sample being sent in for testing.

Samples shall be marked and shipped, in accordance with Sec. 203, using Form TL-10, as outlined in Sec 800. Laboratory tests and inspections of epoxy resins will be reported on Forms TL-30 and TL-109 respectively, as outlined in Sec 800.

NOTES

Section 205 (15) will reflect these changes.

REFERENCES

COPY DISTRIBUTION:

Deputy Chief Engineer
Division Administrators
District Administrators
District Location & Design Engineers
District Construction Engineers
District Maintenance Engineers
District Bridge Engineers
District Traffic Engineers

VDOT Resident Engineers
Federal Highway Administration
Virginia Ready Mix Association
Precast Concrete Association of Virginia
Virginia Transportation Construction Alliance
Virginia Asphalt Association
American Concrete Paving Association Mid-Atlantic Chapter
Old Dominion Highway Contractors Association