

QPL 12: COATINGS FOR CONCRETE

SECTION A: APPLIED TEXTURE COATINGS FOR CONCRETE

GENERAL

This evaluation procedure outlines the Department's approval process for texture coatings for concrete.

SPECIFICATIONS

- TDOT Standard Specification 604.02 – Concrete Structures, Materials
- TDOT Standard Specification 921.14 – Applied Textured Finish Material

PROCEDURE

A completed Product Evaluation Form, Safety Data Sheet (if applicable), product data information, and a sample of the product being tested must be submitted to the Division of Materials and Tests.

Approval is based on the manufacturer submitting a notarized certificate and a certified test report from an accredited lab stating that the texture coating meets the above specifications.

| ITEM NO. | PAY ITEM | PAY UNIT |
|-----------|--|----------|
| 604-04.01 | APPLIED TEXTURE FINISH (NEW STRUCTURES) | |
| 604-04.02 | APPLIED TEXTURE FINISH (EX STRUCTURES) | |
| 604-04.32 | APL TEXTURE FINISH (NEW STRUCTURES) SUP. | |
| 604-04.62 | CLN & TEXTURE FINISH CONCRETE MEDIAN B.R | |
| 605-04.62 | CLEAN AND TEXTURE CONCRETE MEDIAN BARR | |

QPL 12: COATINGS FOR CONCRETE

SECTION: B. CONCRETE CURING COMPOUNDS

GENERAL

This evaluation procedure outlines the Department's approval process for Concrete Curing Compounds.

SPECIFICATIONS

- ASTM C309-03 – Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete
- NTPEP Review – <http://www.ntpep.org/Pages/CADD.aspx>

PROCEDURES

A completed Product Evaluation Form, MSDS sheets (if applicable), product data information, and NTPEP Test Data must be submitted to the Division of Materials and Tests. The manufacturer must also submit a certification that their product meets ASTM C309-03. The Department bases product approval on certification and a review of NTPEP data as described below.

QPL 12: COATINGS FOR CONCRETE

Review of NTPEP Evaluation Data

To be included on the QPL, the product must meet or exceed these requirements as tested by NTPEP:

- **Deleterious Reaction with Concrete** – There shall be no softening of the treated concrete after 72 hours of testing when compared to a sample that has been moist-cured for half that time.
- **Water Retention** – The compound shall restrict the loss of water to no more than 0.55 kg/m² when tested for 72 hours.
- **Drying Time** – The compound shall be dry to the touch in less than 4 hours.
- **Flash Point** – The volatile portion of the compound shall be of materials that are neither toxic nor have a flash point less than 50° F.

Type 1-D Additional Requirements

- **Certification** – Type 1-D curing compounds shall be certified by the manufacturer to be Class B resins as defined in ASTM D 883.

Type 2 Additional Requirements

- **Reflectance** – The compound shall exhibit a daytime reflectance of no less than 60%.
- **Long Term Settling** – The compound shall settle no more than 2 mL in three days