

# QPL 16: PRE-PACKAGED GROUT

## GENERAL

This evaluation procedure outlines the Department's approval process for Pre-Packaged Grout. Products on this list may be cementitious, polymer-modified, or epoxy grouts.

## SPECIFICATIONS

- TDOT Standard Specifications Section 921.09
- ASTM C109 – Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
- ASTM C157 – Standard Test Method for Length Change of Hardened Hydraulic-Cement Mortar and Concrete
- ASTM C531 – Standard Test Method for Linear Shrinkage and Coefficient of Thermal Expansion of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes
- ASTM C579 - Standard Test Methods for Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes
- ASTM C928 – Standard Specification for Packaged, Dry, Rapid-Hardening Cementitious Materials for Concrete Repairs
- ASTM C1107 – Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink)
- ASTM D695 – Standard Test Method for Compressive Properties of Rigid Plastics

## PROCEDURES

A completed Product Evaluation Form, safety data sheet (if applicable), product data information, and test results from an independent laboratory.

The pre-packaged grout shall be in general conformance with the applicable standards for the type of material – cementitious, polymer-modified, or epoxy grout.

- The minimum requirements are as follows:

Age	Compressive Strength (psi)	Length Change (% + or -)
7 days	For information only	
28 days	4000	< 0.30

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## **Additional Requirements**

- The use of a mechanical mixing machine is required.
- The grout must be mixed in accordance with the manufacturer's recommendations.
- The Pre-Packaged Grout selected for use by the contractor must meet the design strength on the contract plans.