

**SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION**  
**QUALIFIED PRODUCT POLICY**  
**FOR**  
**RAPID PATCH MATERIAL FOR CONCRETE PAVEMENTS**

**1.0 General:**

This policy outlines the procedure required for addition to Qualified Product List (QPL) 22, *Rapid Patch Material for Concrete Pavements*. This material is intended for use in partial and full depth spalls in concrete pavements as directed by the Department's Engineer.

All producers that desire to have their rapid patch material for concrete pavements listed on QPL 22 must submit their product for evaluation and testing to the American Association of State Highway and Transportation Officials (AASHTO) National Transportation Product Evaluation Program (NTPEP).

For more information on this qualification program, visit the NTPEP web site at <http://www.ntpep.org/>. Each product must be evaluated in accordance with RSCP, *Evaluation of Rapid Set Concrete Patching Materials for Portland Cement Concrete* and must maintain NTPEP compliance to remain on the QPL.

Products on QPL 22 prior to February 1, 2021, must provide evidence of their product's submission to the NTPEP evaluation program by February 1, 2022 to remain on QPL 22.

**2.0 Material Requirement**

Rapid patch material for concrete pavements must be a quick setting Portland cement based product meeting or exceeding the requirements of ASTM C928, Type R2 or R3.

**3.0 Initial:**

Producers wishing to have their product included on QPL 22 should submit the following:

- A letter requesting inclusion on QPL 22 including:
  - Name of the product
  - Production company name.
  - Company address
  - Contact person with contact info (phone number and email address)
- Technical data sheets describing the properties and installation instructions for the subject product.
- A copy of the most recent (must have been performed within the previous five years) NTPEP test report evaluating the subject product.

to:

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Structural Materials Engineer  
SCDOT Office of Materials and Research  
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Email: [guntercb@scdot.org](mailto:guntercb@scdot.org)

- 3.1 NTPEP test data will be reviewed according to the following criteria. Products meeting the requirements of ASTM C928, Type R2 or R3 in the following criteria will be added to QPL 22. If any of the following test results are not included in the NTPEP test data, independent AASHTO accredited lab test results must be added for that test criteria.
- 3.1.1 Compressive Strength (ASTM C109) or (AASHTO T 22 / ASTM C39)
  - 3.1.2 Bond Strength (ASTM C882 as amended by ASTM C928)
  - 3.1.3 Length Change (AASHTO T 160 / ASTM C157 as amended by ASTM C928)
  - 3.1.4 Consistency (as required by ASTM C928) The vertical and overhead exemption from the consistency requirements shown in ASTM C928, Note C of Table 1 does not apply for this QPL. Flow results must be shown for products tested as mortars and slump results must be shown for products tested as concrete.
- 3.2 Causes for Rejection:
- 3.2.1 Products not meeting the requirements of ASTM C928, Types R2 or R3 will not be added to QPL 22.
  - 3.2.2 NTPEP results older than 5 years will not be accepted.

#### 4.0 Annual:

- 4.1 Each product included on QPL 22 must be NTPEP tested every 5 years to remain on QPL 22. Products failing to be NTPEP tested every 5 years will be removed. Updated NTPEP testing results must be submitted to the Structural Materials Engineer prior to December 31<sup>st</sup> of the fifth year.
- 4.2 Products whose 5 year tests show results not meeting the initial acceptance criteria will be removed from QPL 22.
- 4.3 All shipments to SCDOT projects should be accompanied by detailed data sheets, installation and mixing instructions, and MSDS information.
- 4.4 Immediately notify the Structural Materials Engineer of any product name changes or changes in the contact information for any product representative.
- 4.5 Immediately notify the Structural Materials Engineer of any changes to the formula or ingredients of a product currently on QPL 22. Any such changes will require new NTPEP testing.
- 4.6 The SCDOT reserves the right to sample and test any product on QPL 22 when being incorporated into any SCDOT project.
- 4.7 In the event that the producer appears to be in compliance with all the requirements of this policy, but the end product does not meet the Department's requirements, or the finished product does not produce the quality or longevity required, the Structural Materials Engineer may take steps towards suspending the producer's SCDOT qualification status. If the problem has not been properly corrected within 30 business days, the Structural Materials Engineer may revoke the qualification status of the producer until the producer demonstrates that all the issues have been properly resolved.