



POLICY FOR HIGH PERFORMANCE POTHOLE PATCHING PRODUCTS
(Qualified Products Policy #43)

South Carolina Department of Transportation

In order for high performance pothole patching products to be accepted and placed on SCDOT Qualified Products Listing No. 43, the product must satisfy the following specifications and procedures.

SPECIFICATIONS

High Performance Pothole Patching Products will bond to existing pavements without using a tack coat in wet and dry conditions. HPL products must remain highly workable in sub-freezing temperatures down to 10°F. The maximum size aggregate in the mixture will not exceed $\frac{3}{4}$ inch, with most aggregates being smaller than $\frac{1}{2}$ inch in order to seal out water and decrease permeability of the finished mixture. These products must be ready to use upon delivery without heating, blending, or mixing. Products being produced from different asphalt plants will be permissible once the product has been through the entire evaluation process. Producing from multiple plants is permitted as long as the asphalt supplier that supplies the liquid products for the HPL mixture can be available to perform any quality control or process measures necessary to produce a uniform quality patching product.

Delivery will be in plastic containers or bags weighing between 50-75 pounds, or product may be purchased by the ton in bulk to be stockpiled on SCDOT maintenance yards. Shelf life of containerized or bagged products shall be a minimum of 2 years. Bulk stockpiles must remain workable in all weather conditions for a minimum of 6 months. Safety Data Sheets (SDS) shall accompany each delivery of the product.

INITIAL LABORATORY EVALUATION

Vendors desiring their products to be placed on SCDOT Qualified Products Listing No. 43 must submit 50-75 pounds of the product along with a Preliminary Information for Product Evaluation form (945), a certification that the product meets SCDOT specifications, and an SDS to:

Asphalt Materials Manager
SCDOT Office of Materials and Research
1406 Shop Rd.
Columbia, SC 29201
Phone: (803)737-6681

The product will be evaluated in the lab for workability by placing enough of the product in a suitable container so that at least 6 inches of depth is achieved. The container with the new HPL product will then be placed in a freezer at 10°F for 4 hours. The product must be workable immediately upon removal from the freezer. The initial work-ability test will be performed using a stainless steel spoon to simulate a shovel in the field, and should be placed directly into the mixture upon taking the mixture out of the freezer. Work-ability is determined to be suitable if the spoon can be pushed into the sample without use of excessive force.

FIELD EVALUATION FOR STOCKPILED PRODUCTS

Once a product meets the initial laboratory approval, a letter will be sent to the supplier and to the Director of Maintenance office requesting that the new products to be evaluated in the field. The field evaluation is performed by allowing the HPL material to be exposed to actual road patching applications. A minimum of 200 pounds of the material is needed for the field evaluation. HPL product field evaluation will consist of placing some of the product on a SCDOT low volume road for a minimum of 3 months. The initial placement in a pothole should be noted for workability, and the final field evaluation should be noted to include an estimated percentage of material remaining in place in previously patched areas. It is suggested that more than one patched area be observed to properly evaluate the HPL product. If the product performs satisfactory and all other requirements of this approval policy are satisfied, it will be placed on SCDOT Qualified Products Listing No. 43.

The Director of Maintenance office will make final evaluating and approval of this product. The contact person for the Director of Maintenance is:

Laura Fulmer, P.E.
Assistant State Maintenance Engineer
SCDOT Director of Maintenance
955 Park St.
Columbia, SC 29202
Phone: (803)737-3887
E-mail: FulmerLC@scdot.org

ANNUAL REAPPROVAL

In order to be reapproved each year, the liquid asphalt vendor must submit an annual certification letter to the Department's Maintenance Contracts Manager stating that the product has not changed its original evaluated and approved formula. The letter must contain the locations of the asphalt plants that produce the finished HPL mixture, as well as an updated contact including name, address, phone number, and email. The annual certification letter must be received before October 31st of each year.