

U. S. Department Of Transportation
Federal Highway Administration
Any State Division Office
123 4th Street, Suite 567
Capitol City, Any State 00000

October 27, 2008

IN REPLY REFER TO: HNG-AS

Route 57 Bridge Over Merrill Creek
Greenwich Township, Warren County
Federal Project No. BRF-0044(106)

N. G. Neer
Executive Manager
1035 Parkway Avenue -E&O Building
Design Services Division
Bureau of Structural Engineering

Dear Mr. Neer:

We have reviewed your request for the use of the following proprietary item:
Micro-Texture overlay manufactured by TTT Paving Products, Inc. We concur
with the use of this proprietary item, based on 23 CFR 635.411(a)(3), for
research or experimental purposes. If you have any questions, please feel free
to contact me at 888-555-1212.

Sincerely yours,

P.V. Ment
Assistant Area Engineer

cc: RF, HNG, PF

State of Any State
Department of Transportation
P.O. Box 600
Capitol City, Any State 00000

New Technologies and Products Unit PIF – Micro-Texture Rte. 57 Bridge
Replacement

October 9, 2008

C. N. Crete
Division Administrator
Federal Highway Administration
123 4th Street, Suite 567
Capitol City, Any State 00000

Attention: S. Phalt

Dear Mr. Crete:

The following work plan is submitted for your review and comments.

With reference to Title 23 CFR 635.411 (a) (3), Experimental Products, and as part of the ongoing evaluation of new technologies and products in support of our Structural Engineering and Materials units, we wish to conduct a field demonstration using a proprietary friction enhancing, surface sealing and cosmetic treatment material for bridge decks and pavements called Micro-Texture manufactured by TTT Paving Products, Inc.. The project location is Route 57 1 B Bridge over Merrill Creek in Warren County. In addition to providing safety and performance enhancements, the use of this material will also satisfy a request by the community to provide a deck pavement color that will match the surrounding pavements.

OBJECTIVE

The objective of the field demonstration is to determine the effectiveness of the Micro-Texture in providing a durable friction course, ability to seal the bridge deck to prevent premature deterioration due to chloride intrusion and to assess color retention and general durability.

TEST SITE DESCRIPTION & LOCATION

Route: Replacement of Route 57 Bridge over Merrill Creek
Contract No.: 002960437
Location: Greenwich Township, Warren County
Federal Project No.: BRF-0044(106)
D. P. No.: 06146

PRODUCT DESCRIPTION (from manufacturer's product brochure)

Micro-Texture is a 2 part, 100% solids epoxy hybrid/amine cured polymer resin which has a top dressing of highly skid-resistant aggregate such as Bauxite or Granite. This provides a tough, waterproof, durable, and skid-resistant bonded overlay. The product is machine-applied but can be hand-applied where necessary onto asphalt, concrete, and metal surfaces to provide a highly durable, long lasting and skid resistant surface.

BENEFITS

The advantages and benefits of using this device include:

- Increases safety
- Extends service life of deck
- Low cost corrosion protection/crack sealing
- Reduce future deck repair corrosion damage and repairs
- Low cost -\$4/sq ft. installed

EVALUATION METHODS

The New Technologies and Products Section will conduct the following:

1. Compare results from chloride ion penetration tests, taken annually, from a control section and various treated sections of the bridge deck
2. Perform skid tests annually
3. Conduct semi-annual field inspections over two year period for visual assessment of color and durability

REPORTING

The New Technologies and Products Unit will prepare a memorandum report documenting the construction phase of the study and a suitable final report. The latter will include recommendations for future use and construction and material specifications for Department review and FHWA approval.

COSTS

Typical application cost of Micro-Texture is \$4/square foot versus \$3/square foot for saw-cutting. However, for demonstration purposes, the product manufacturer, TTT Paving Products, Inc., has agreed to accept the current contracted bid price for saw-cutting of \$2650 (\$25/Sq Meter) for this project.

Sincerely,

N. G. Neer
Executive Manager
Structural Engineering