

New Jersey Department of Transportation
1035 Parkway Avenue, PO Box 600, Trenton, New Jersey 08625-0600



Baseline Document Change Announcement

ANNOUNCEMENT: BDC18S-14

DATE: January 14, 2019

SUBJECT: Micro Surfacing and Slurry Seal
- **Revision to the 2007 Standard Inputs, Subsection 421.04 and Subparts 421.03.02 & 421.03.03.**

Subsection 421.04 and Subparts 421.03.02 & 421.03.03 of the 2007 Standard Inputs have been revised to include the calibration requirements of the mixing device as part of the test strip in accordance with the International Slurry Surfacing Association, provide clarification on Micropaving Joints, and revise the payment clause for Micro Surfacing Emulsion and Slurry Seal Emulsion.

The changes to the Standard Input, SI2007 are as follows:

SECTION 421 – MICRO SURFACING AND SLURRY SEAL

421.03.02 Micropaving Joints

THE ENTIRE SUBPART AS IT APPEARS IN THE SI IS CHANGED TO:

Clean the joint, removing unsound patches and loose material. Use micro surfacing Type II as specified in [902.09](#) and rut filling equipment or slurry seal paver equipment modified to provide a 2 feet to 5 feet wide application of material to fill in open longitudinal joints and rumble strips in one pass as shown on the plans and as directed by the RE. For joint filling greater than 2 inches deep and less than 6 inches wide, perform multiple applications to even out settlement of the material after curing. For joints greater than 2 inches deep and greater than 6 inches wide, perform HMA pavement repair as specified in [401.03.03](#). Avoid excess crowning and over filling of joints and rumble strips. Cure each pass of material under traffic for at least 24 hours before additional material is placed.

421.03.03 Micro Surfacing Aggregate and Micro Surfacing Emulsion

PART C AS IT APPEARS IN THE SI IS CHANGED TO:

C. Test Strip. { XE "Micro surfacing:Test strip" } Construct a test strip of at least 500 feet in length on the roadway before initial placement commences. Ensure that the mixing unit has been calibrated according to the International Slurry Surfacing Association Inspector's Manual or as recommended by the manufacturer. Ensure that the tack coat has been placed as specified in [401.03.05](#). Ensure the test strip is performed during weather and sunlight conditions, which represents project production placement of the material. While constructing the test strip, record the following information and submit to the RE:

- 1. Ambient Temperature.** Measure the ambient temperature at the beginning and end of each day's operation.

2. **Base Temperature.** Measure the surface temperature of the existing pavement at the beginning and end of each day's operation.
3. **Weather Conditions.** Document the wind speed, weather conditions, time of day, and humidity at the time of placement.
4. **Tack Coat.** Measure to verify the proper application rate, coverage, and temperature of tack coat for compliance.
5. **Material Quantities.** Measure to verify the proper proportions of emulsion, cement, aggregate, additives (if any), and temperature of the mixture during placement. Measure to verify the proper application rate of the mixture for compliance.
6. **Roller Pattern.** Provide details on the number of rollers, type, and number of passes used on the test strip.
7. **Initial Set Time.** Record the initial time of placement. Verify that the mixture has achieved initial set within 30 minutes of placement.
8. **Performance Under Traffic.** Verify that the surface shows no visual signs of distress when exposed to traffic after curing for 1 hour.
9. **Calibration.** Measure to verify that the gate opening is what was determined during calibration.

Submit test strip results to the RE. The RE will analyze the test strip results in conjunction with the approved mix design to approve the test strip. Do not proceed with production placement until receiving written permission from the RE.

If the test strip does not meet requirements, make adjustments and construct a second test strip. If the second test strip does not meet requirements, suspend operations until written approval to proceed is received from the RE.

Before making adjustments to the operations, notify the RE in writing. The RE may require a new test strip to verify the performance of the adjusted operations.

421.04 MEASUREMENT AND PAYMENT

THE ENTIRE SUBSECTION AS IT APPEARS IN THE SI IS CHANGED TO:

The Department will measure and make payment for Items as follows:

<i>Item</i>	<i>Pay Unit</i>
MICRO SURFACING AGGREGATE, TYPE III RUT-FILLING	TON
MICROPAVING JOINTS	LINEAR FOOT
MICRO SURFACING AGGREGATE, TYPE II	TON
MICRO SURFACING AGGREGATE, TYPE III	TON
MICRO SURFACING EMULSION	GALLON
SLURRY SEAL AGGREGATE, TYPE I	TON
SLURRY SEAL AGGREGATE, TYPE II	TON
SLURRY SEAL EMULSION	GALLON

The Department will make payment for TACK COAT as specified in [401.04](#).

The Department will not include payment for removal of traffic stripes, removal of traffic markings, epoxy traffic stripes, epoxy traffic marking, lines, epoxy traffic markings, symbols and epoxy traffic markings, route symbols in the various Items of this Section. The Department will pay for removal of traffic stripes, removal of traffic markings, epoxy traffic stripes, epoxy traffic marking, lines, epoxy traffic markings, symbols and epoxy traffic markings, route symbols under REMOVAL OF TRAFFIC STRIPES, REMOVAL OF TRAFFIC MARKINGS, TRAFFIC STRIPES EPOXY, TRAFFIC MARKINGS LINES, EPOXY, TRAFFIC MARKINGS SYMBOLS, EPOXY and TRAFFIC MARKINGS ROUTE SYMBOLS, EPOXY as specified in [610.04](#) respectively.

The Department will not include payment for latex traffic stripes, latex traffic markings lines and latex traffic markings symbols in the various Items of this Section. The Department will pay for latex traffic stripes, latex traffic markings lines and latex traffic markings symbols under TRAFFIC STRIPES, LATEX, TRAFFIC MARKINGS LINES, LATEX and TRAFFIC MARKINGS SYMBOLS, LATEX as specified in [159.04](#) respectively.


The Department will measure MICRO SURFACING EMULSION and SLURRY SEAL EMULSION by the gallon on the certified weigh tickets, excluding unused material, with the exception that micro surfacing emulsion required for micropaving joints is included in the price per linear foot of MICROPAVING JOINTS.

The Department will measure MICRO SURFACING AGGREGATE TYPE II, MICRO SURFACING AGGREGATE TYPE III, MICRO SURFACING AGGREGATE TYPE III RUT-FILLING, SLURRY SEAL AGGREGATE TYPE I, and SLURRY SEAL AGGREGATE TYPE II by the ton as indicated on the certified weigh tickets, excluding unused material.

Implementation Code R (ROUTINE)

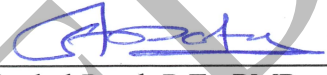
Changes must be implemented in all applicable Department projects scheduled for Final Design Submission at least one month after the date of the BDC announcement. This will allow designers to make necessary plan, specifications, and estimate/proposal changes without requiring the need for an addenda or postponement of advertisement or receipt of bids.

Recommended By:



Paul F. Schneider
Director
Capital Program Support

Approved By:



Snehal Patel, P.E., PMP
Assistant Commissioner
Capital Program Management
and State Transportation Engineer

PS: NP: HP

