



TO:  <b>SUPERSEDED BY EI 97-030 EFFECTIVE 4/23/98</b>	 <b>ENGINEERING BULLETIN</b> NEW YORK STATE DEPARTMENT OF TRANSPORTATION
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APPROVED:  <hr/> W. J. MURPHY, DIRECTOR, MATERIALS BUREAU	Date: <u>04/24/90</u> Supersedes:

This Engineering Bulletin Expires upon receipt

This bulletin transmits revisions to pages 5 and 6 of the attachments to Engineering Instruction 90-1. In some copies of EI 90-1, the  $\geq$  and  $<$  symbols were omitted on these pages and this oversight is corrected on the revised pages transmitted with this Bulletin.

APPENDIX 1

PAVEMENT JOINT/CRACK MAINTENANCE DETAILS

Category of Work: PCC Pavement (Transverse & Longitudinal) Joint Resealing

Funding Source: Maintenance by Contract

Recommended Materials: Silicone (Approved List)

Character of Work:

- Remove existing joint sealant.
- Additional width sawcut, if required.
- Sandblast each wall of the sealant reservoir.
- Air blast each wall of the sealant reservoir.
- Place backer rod to the proper depth.
- Extrude sealant into the sealant reservoir such that the sealant is 1/8" below the surface of the pavement.
- Tool sealant, if required.

Preferred Application Time: Summer Season

Item Nos:

- 18502.701002 - Transverse - 63' slabs
- 18502.702002 - Transverse - 20' slabs
- 18502.7401 - Longitudinal

Estimated Unit Cost: \$2.60/FT (material and application only)

Estimated Service Life: 8+ Years

Category of Work: PCC Pavement Crack Sealing

Funding Source: Maintenance by Contract

Recommended Materials: Silicone (Approved List)

Character of Work:

- Sawcut a sealant reservoir over the the crack - only cracks  $\geq 1/8"$  but  $< 1/2"$  need be sawn. Cracks  $< 1/8"$  will not be sealed.
- Sandblast both faces of the sealant reservoir.
- Backer rod may be used at the contractors discretion.
- Extrude sealant into crack/reservoir such that the top of the sealant is 1/8" below the surface of the pavement.
- Tool sealant, if required.

Preferred Application Time: Summer season

Item No: 18502.7601

Estimated Unit Cost: \$2.70/FT (material and application only)

Estimated Service Life: No estimate of service life due to limited number of jobs completed using this material. However, it is expected that a service life similar to PCC joint resealing will result.

PAVEMENT JOINT/CRACK MAINTENANCE DETAILS

Category of Work: PCC/ACC Shoulder Joint Filling

Funding Source: - Highway Maintenance - Primarily  
- Some Maintenance by Contract

Recommended Materials: ASTM D3405 (OGS contract)  
ASTM D1190 (OGS contract)  
AC 20 + Fibers (OGS contract)

Character of Work: - Air blast debris from joint. Hot air lance may be used for this operation.  
- Pour filler over joint.  
- Squeegee filler such that a band of filler 1/8" high and 4" wide is left on the pavement/shoulder.

Preferred Application Time: Spring or fall seasons

Item Nos: 18403.7503

Estimated Unit Cost: \$0.60/FT - (material and application only)  
Highly variable dependent on crack characteristics

Estimated Service Life: 2+ Years

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Category of Work: ACC Pavement Crack Sealing (Primarily for Thermal cracks)

Funding Source: - Maintenance by Contract - Primarily  
- Some work could be performed by Highway Maintenance

Recommended Materials: ASTM D3405 (Approved List - OGS Contract)

Character of Work: - Sawcut a sealant reservoir over the the crack - only cracks  $\geq 1/8"$  but  $< 1/2"$  need be sawn. Cracks  $< 1/8"$  will not be sealed.  
- Air blast debris from joint. Hot air lance may be used for this operation.  
- Pour filler over joint.  
- Squeegee filler such that a band of filler 1/8" high and 4" wide is left on the pavement/shoulder.

Preferred Application Time: Spring or fall seasons

Item No: 18403.7504

Estimated Unit Cost: \$2.20/FT (material and application only)

Estimated Service Life: 5+ Years