Crack Sealing & Crack Filling

Pavement Preservation Treatments

Larry Galehouse, P.E., P.S. National Center for Pavement Preservation





Crack Sealing & Crack Filling







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Working Crack

Criteria:

Crack movement is at least 1/8 inch

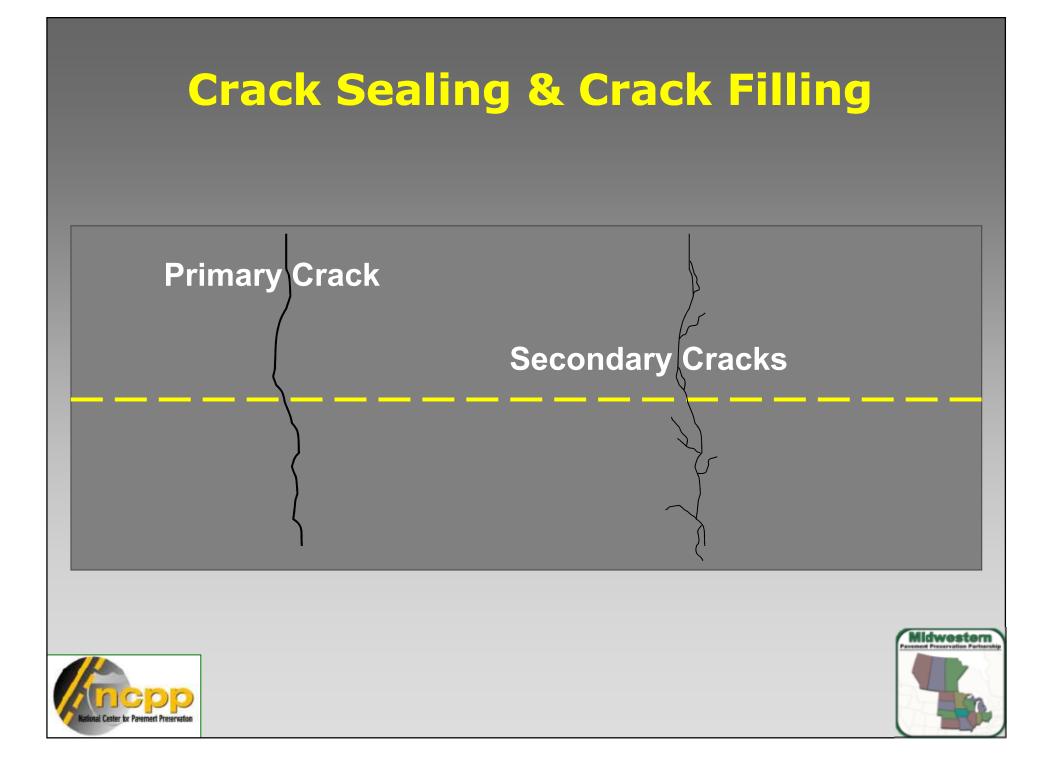
Non-Working Crack

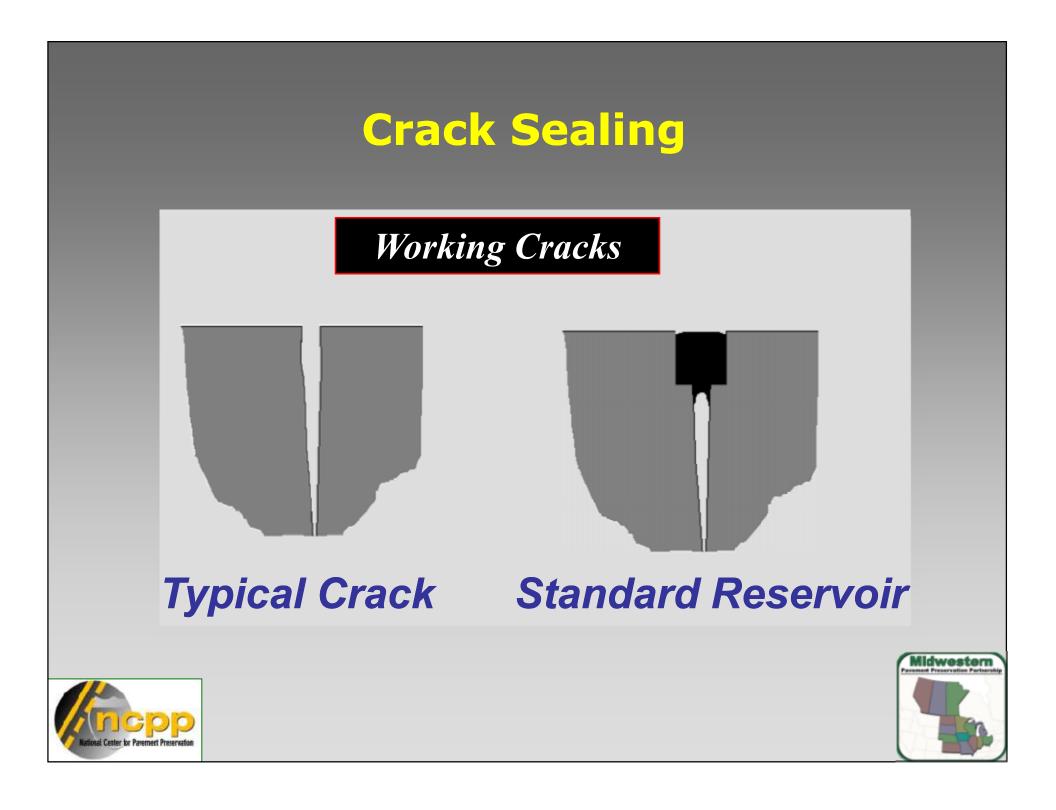
Criteria:

Crack movement is less than 1/8 inch









Crack Sealing



Transverse Crack = Working Crack

















































Router Method

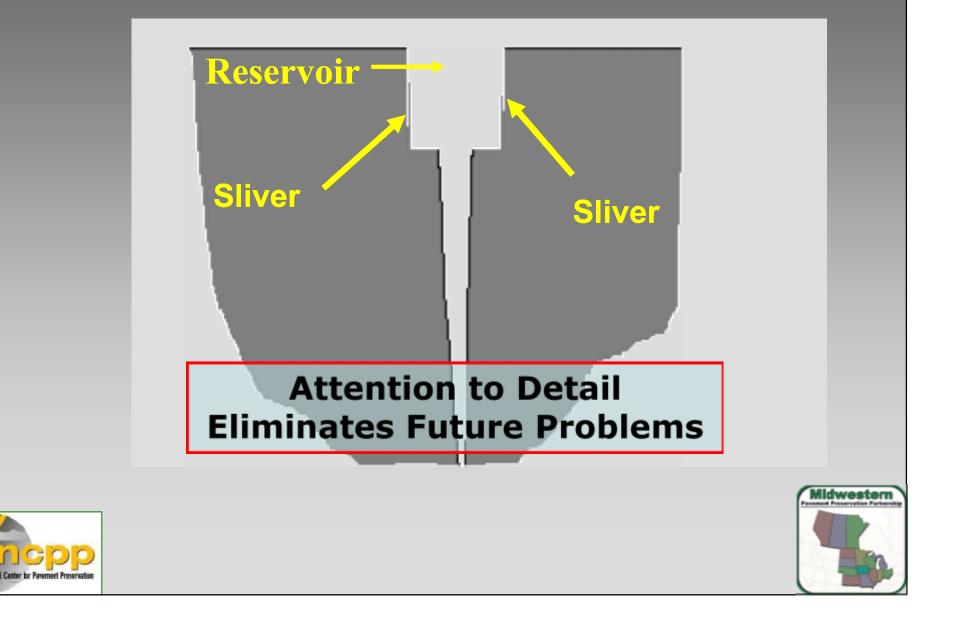
- 1. Rout Crack
- 2. Blow Reservoir Clean
- 3. Apply Sealant in Crack

Crack Saw Method

- 1. Saw Crack
- 2. Sandblast Sidewall of Crack
- 3. Blow Reservoir Clean
- 4. Apply Sealant in Crack















Sealed Transverse Crack



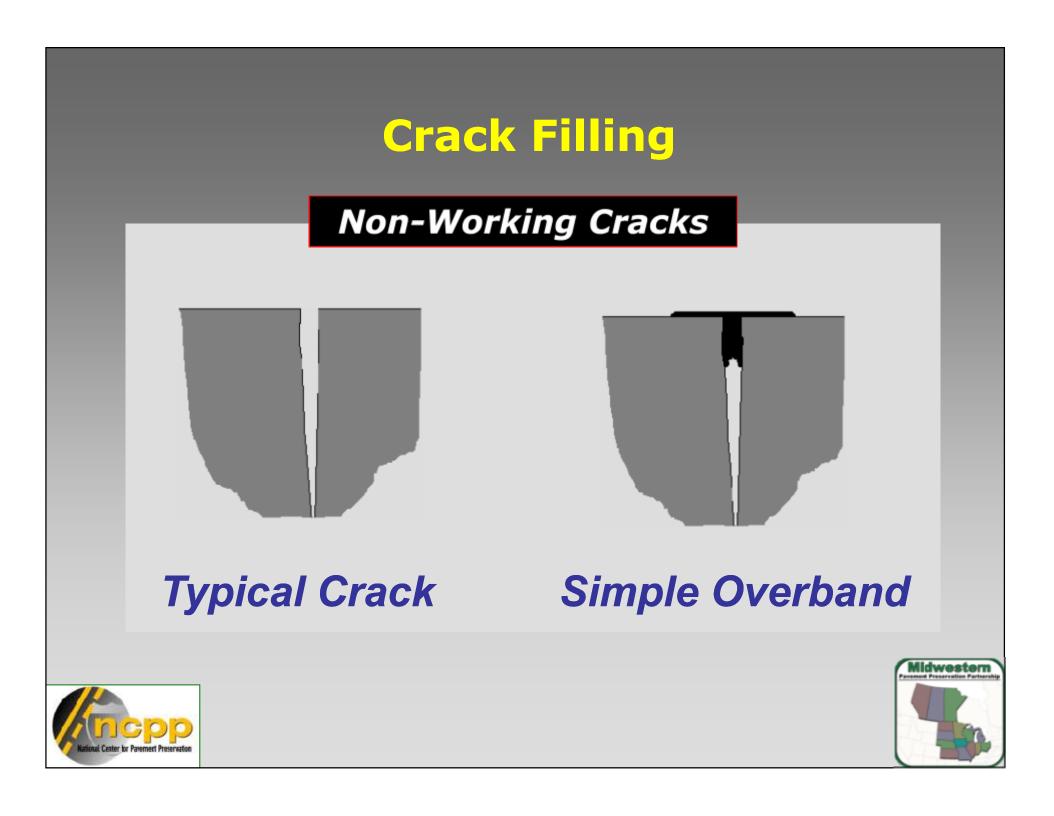


Typical Procedure

- Target Non-Working Cracks
- Clean with Dry Compressed Air
- Fill with Specially Blended Material
 - Asphalt Binder, Hot Rubber, Fiber













































Safety Issues....





Economic Issues . . .



Safety Issues....

Too Much Material





Economic Issues...



Sealant Material

<u>Typical Midwest Specification</u> • ASTM Type II (was D-3405) – Joint Sealant-Hot Applied for

Concrete and Asphalt Pavements





Questions ?

MICHIGAN STATE U N I V E R S I T Y



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Thank You !



