



# **MRPA**

**MICHIGAN ROAD PRESERVATION ASSOCIATION**

## **Getting to Know Your CPM Toolbox Interlayers**

# Interlayers

# Chip Seal Interlayer

- Placed prior to HMA overlay  
**Texas Under Seal**
- Placed prior Micro Surfacing  
**Cape Seal**
- Most common interlayer for CPM treatments.
- Variations: Scrub Seal and Fiber Reinforced Bituminous Membrane, Type B (FiberMat).



# Benefits of Interlayers

- Extends life of the overlay by delaying reflective cracking.
- Allows the energy from a crack to propagate horizontally as opposed to vertically.
- Reduces amount of surface water that will penetrate the pavement.
- The surface treatment can be thinner.





# Benefits of Interlayers

- Better compaction and adherence of surface treatment.
- Can eliminate need for (cost of) tack coat.
- CPM treatments can be mixed to meet project design needs
  - **Reverse Cape Seals** use micro surfacing as the interlayer.



# Mixing the Fixes

- As roads deteriorate, a single fix may not be the right fix.
- Interlayers provide a cost-effective life cycle extension and substantial savings over more costly rehabilitation.
- Better ride for life of pavement with less maintenance.



**Cape Seal**









Crawford Rd →











# Cape Seal

- Sweep well. Wherever possible, allow traffic on chip seal prior to the application of the micro surface.
- Importance of clean surface.
- Non warranty chip seal with FUSP for warranty top course micro surfacing.





# Cape Seal Candidates





# Fiber Mat











**Scrub Seal**



# Scrub Seal

- Use as stand-alone treatment or interlayer.
- Does not replace standard overband, chip and fog seal.
- Scrub seal is used where distress is too severe for standard overband.







# Scrub Seal

- Benefits of a high-performance chip seal and rapid crack fill solution in one.
- Highly polymerized rejuvenating emulsion scrubbed into cracks.
- Designed to improve pavements with signs of alligator cracking, block cracking, raveling, and severe surface deterioration.
- Proper pavement selection is extremely important.











