























Good Candidates

- Shallow rutting < ½ in
- Top down cracking
- Longitudinal cracking
- Transverse cracking (with underseal)
- Highly oxidized surface
- Polished surface
- Acceptable ride quality
- Where cross slope correction not required

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- Texas CRCP Concrete pavements
- · Where low noise surface is desired
- · Both low and high volume traffic roadways



Keys to Successful Construction

- Preparing and Repairing
 - Spot repair
- Mill and fill areas with fatigue cracking, failures or shallow rutted
- Level-up
 - Should get a 25 to 35% improvement in IRI
 - If roughness > 120 in/mile, place level-up
- Milling recommended if
- Pavement highly oxidized/stiff
- Cross-slope corrections needed
- Minor to moderate ride issues
- Extensive thermal or top-down cracking (>40 percent by area)
- Extensive recent crack seal or Multiple unstable seals
- Extensive Thermal Segregation/Raveling
- Micro-milling recommended if milling required



Keys to Successful Construction (cont)

- Bonding
 - On existing HMA, apply non-tracking tack, chip seal, or use spray paver.
 - Apply non-tracking tacks at 0.03 to 0.06 gal/sy



Keys to Successful Construction (cont)

- Underseals (chip seals/interlayers)
 - Only if significant unsealed cracks
 - If used on top of CRCP
 - If milling will expose underlying cracking
 - If overlaying newly widened sections
 - Use polymer modified binder in chip seal
 - Design chip seal with smaller aggregate
 - Use proper chip seal construction practices



Keys to Successful Construction (cont)

- Mixture Placement
 - Warm mix additives
 - if haul distance greater than 40 miles
 - · As compaction aid
 - if ambient air temp less than 70°F
 - Pave-IR and MTV's
- Compaction
 - No pneumatics
 - Recommend dual rollers in tandem
- TOM-C (3 passes each pass is one vibratory/one static)

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- TOM-F 4-5 static passes
- Need adequate release agents (mix very sticky)



Keys to Successful Construction (cont)

Acceptance in the Field

Water Flow Test (Flow rate > 2 minutes)



- Management of Wind rows
 - Remove Chunks they do not remix



















