NJDOT Pavement Rehabilitation Strategies

By Robert J. Blight
Principal Engineer
Pavement Management & Technology
Pavement Rehab Goals

- Improve Pavement Condition
- Improve Ride Quality
- Improve Safety
- Extend Life
- Increase Structural Capacity
- Reduce Life Cycle Costs
- Increase Customer Satisfaction
Flexible Rehab Strategies

• Micro-surfacing
• Thin Overlays
  – HMA Friction Courses
  – Ultra-Thin Friction Course (Novachip)
  – High Performance Thin Overlay
Micro-surfacing
Micro-surfacing
Asphalt Rubber Open Graded Friction Course
Ultra-Thin Friction Course (Novachip)
High Performance Thin Overlay
Flexible Rehab Strategies

- Mill and HMA Overlay
- Mill, Construct Paving Fabric & HMA Overlay
- Stone Matrix Asphalt SMA
Paving Fabric
Paving Fabric
SMA 9.5mm Surface Course
SMA 9.5mm Surface Course
Concrete Pavement Rehab Strategies

- Slab Stabilization
- Partial Depth Repair
- Full Depth Repair
- Dowel Bar Retrofit and Crack Stitching
- Diamond Grinding
- Joint Resealing and Crack Sealing
Slab Stabilization, Polyurethane Grout
Slab Stabilization, Polyurethane Grout
Partial Depth Repair After Saw Cutting and Chipping
Partial Depth Repair with Portland Cement Concrete
Partial Depth Repair with TechCrete (Crafco Product)
Full Depth Concrete Repair

Cast In Place

Precast and Dropped In
Diamond Grinding
Composite Pavement Rehab Strategies

• Slab Stabilization
• Full Depth Repairs with HMA
• Use of Better Mixes
  – AROGFC
  – HPTO
  – SMA
  – Reflective Crack Relief Interlayer (RCRI)
  – XFB or Rosphalt 50
Overlay Tester Results

NJDOT Surface Course Mixes

59°F, 0.025” Horizontal Deflection

<table>
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<th>Mix</th>
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Composite Pavement Rehab Strategies

- Rubblization and HMA overlay
Thank you. Questions?

Contact Info:
Robert J. Blight
Principal Engineer
NJDOT
Civil Engineering - Pavement Management & Technology
Phone (609) 530-4445
Fax (609) 530-5550
email: robert.blight@dot.state.nj.us