Ultra-Thin Bonded Wearing Coarse

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Ultra-thin Bonded Wearing Course

- A very thin layer of polymer modified HMA used as high performance surface treatments.
Process

- Single Pass System
  (Emulsion membrane, Thin gap-graded polymer modified hot mix, Placed with Special Equipment)

The emulsified membrane cures and provides further bonding for HMA to the Pavement

Application of membrane

Application of HMA

Emulsion membrane
0.15 - 0.3 gal/yd²

Total thickness
5/8 to of 1.5 inches

3/8” Agg. Size

Surface of Mix

Existing Pavement
Construction Advantages

- Rolling only to seat aggregate
- Return to traffic in 10-20 minutes
Performance

- Superior bonding of the new surface to the existing surface
- No loose aggregate
- Emulsion seals out water
- Improvement of skid resistance and friction
- Reduced tire splash and noise
City of Apache Junction

Back spray from dense graded surface

Greater visibility on Ultra Thin Bonded Wearing Coarse surface
Suitable for pavements with slight to moderate cracking high traffic volume roads and can be considered as an alternative to chip seals, microsurfacing, and OGFC.

<table>
<thead>
<tr>
<th>Pavement Type</th>
<th>Cracking</th>
<th>Patching/Potholes</th>
<th>Surface Deformation</th>
<th>Surface Defects</th>
<th>Joint Deficiencies</th>
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</thead>
<tbody>
<tr>
<td>AC</td>
<td>1. Longitudinal &amp; Transverse (Medium) 2. Block (Moderate) 3. Edge (Moderate)</td>
<td>Patches: Moderate Potholes: Moderate</td>
<td>Rutting: &lt;12.5 mm Shoving: No</td>
<td>Bleeding Moderate Polished Agg: OK Raveling: Severe</td>
<td>N/A</td>
</tr>
</tbody>
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Thank you!