**Interlayer** – “A layer between two others”

**Geosynthetic** – “Polymeric material”

- Texas Under Seal is an interlayer (non-geosynthetic)

- Functions:
  - Reflective crack delay
  - Waterproofing
  - Tensile reinforcement
Geosynthetic Interlayer Types

• Fabrics
• Grids
• Composites
• Hybrid Mats
• Membranes
Common Applications

• Overlays and chip seals on cracked pavement
• Asphalt overlays on rigid pavement
• Widening joints
• New pavement
Effectiveness

• Existing pavement condition

• Climate

• Traffic conditions

• Installation quality

• Binders used
Other Considerations

• Coverage area

• Cost/benefit

• Manufacturer recommendations

• Millability & Recyclability
Installed Costs

• Fabrics $2.50/SY $18,000/L-M

• Grids $6.00/SY $43,000/L-M

• Composites $8.00/SY $57,000/L-M

• Hybrid Mats $4.00/SY $28,000/L-M

• Membranes $15.00/SY N/A
References

• Asphalt Interlayer Association (http://www.aia-us.org/)
• TTI “Guidelines for Using Geosynthetics with HMA Overlays…”
• FHWA Fabric Interlayer Application Checklist
• FHWA Distress Identification Manual (FHWA-RD-03-031)
• Mn/DOT Pavement Distress Identification Manual
• Asphalt Institute Pavement Distress Summary