

Influence of Mix Design Towards Stripping Potential of Asphalt Pavements



April 14, 2002 The Woodlands, Texas





Moisture Damage

- * Stripping
- * Moisture Susceptibility







Stripping

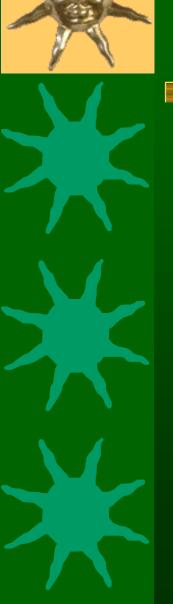
- * Controlled with additives
- * Compatibility

Aggregate

Binder

Additive







Moisture Susceptibility



Poor Quality Mixes



Alternatives



* Sands

Excessive use

Dirty

Shape

Change source





Alternatives

- * Lack of film thickness
- * Mix too dry
- * Obey minimum VMA
- * Aggregate/AC compatibility aggregate surface chemistry asphalt chemistry



Alternatives

- * Softer asphalts test less positively
- * Polymer modified asphalts



Downside

Economics



Economics

- * Cheaper aggregates
- ***** Excessive use of field sands
- * Dirty aggregates
- * Minimum VMA less asphalt



Shortcomings



