







Corrected Optimum Asphalt Content (COAC)

A very brief overview

A Brief History

- Early concerns that lead to the implementation of COAC
 - Segregation
 - Coarse Streaking
 - Dry and Aged Appearance
- Superpave Design History
 - Late 1990's
 - Rut resistant but permeable
 - 2005 Design procedure modified
 - Ndes 65 and Finer Gradation
 - 2005-2010 New testing added
 - Permeability (GDT-1), Hamburg (T324)

A Brief History

- An examination of RAP and its interaction with SP Mixes
 - Increasing use of RAP in mixtures
 - (2012) testing RAP's contribution to mixes
 - Liquid contribution and/or precoated Agg
- Evolution of COAC
 - Original Ratio 75-25
 - 75% credit (binder offset) 25% neat return
 - COAC corrects the Opt AC higher
 - This adds neat AC back into the mix
 - Minimums for AC and film thickness
 - Current COAC is now a 60-40 ratio
 - COAC is calculated based on RAP AC and percentage add (not based on mix type)

