Effect of aggregate properties on the aggregate/bitumen adhesive bond.

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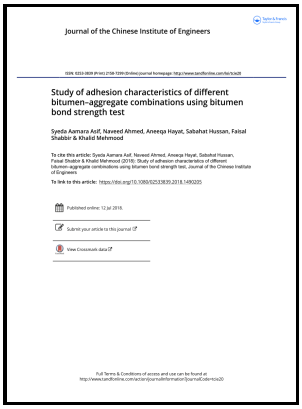
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Study of adhesion characteristics of different bitumen–aggregate combinations using bitumen bond strength test

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-effect of aggregate properties on the aggregate/bitumen adhesive bond.
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Notes: Thesis (D. Phil.) - University of Ulster, 1997.
This edition was published in 1997

Tags: #Modifying #Surface #Properties #of #Model #and #Pavement #Aggregates #with #Silanes

Durability of asphalt mixtures: Effect of aggregate type and adhesion promoters

Experimental support is included where available. The ability of these theories to place bitumen-aggregate adhesion and the effect of moisture on a quantitative level is considered and practical implications discussed.

Influence of aggregate mineralogical composition on water resistance of aggregate

Mineral aggregates are mixed with bitumen in the production of asphalt mixtures, and the interaction of aggregates with bitumen, water, or chemical modifiers affects the overall performance of the mixtures and, in turn, the pavement structure. Compatibility of different bitumen-aggregate pairs can be assessed if their surface free energies are known. Compatibility of different bitumen-aggregate pairs can be assessed if their surface free energies are known.

[PDF] Adhesive and Cohesive Properties of Asphalt

Lottman RP 1982 Predicting moisture-induced damage to asphaltic concrete field evaluation.

Effect of Aging on Adhesion Properties of Asphalt Mixtures with the Use of Bitumen Bond Strength and Surface Energy Measurement Tests

The authors suggest that the key to quantifying this effect should be sought in the relationship between pH and electron donor-acceptor properties of bitumen and aggregate surfaces.

[PDF] Adhesive and Cohesive Properties of Asphalt

The authors suggest that the key to quantifying this effect should be sought in the relationship between pH and electron donor-acceptor properties

of bitumen and aggregate surfaces. Wu SP, Pang L et al 2009 Influence of aging on the evolution of structure, morphology and rheology of base and SBS modified bitumen.

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