

**INVESTIGATION ON BINDER-AGGREGATE ADHESIVITY
USING A NANOTECHNOLOGY CHEMICALLY REACTIVE
SILANE ADDITIVES BASED AGENT**

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ABSTRACT

Bonding between bitumen and mineral aggregate is one of the most important prerequisites in asphalt pavement construction to ensure asphalt pavement durability. An adhesion agent based on nanotechnology, called ZycoTherm®, is reported to substantially improve coating of asphalt binder on aggregates, to ensure consistent and higher compaction and to eliminate stripping for making durable asphalt pavements over the service life. This paper presents results from laboratory testing of this product and critically discusses its effectiveness in comparison to a number of other adhesion agents widely used.