

Investigating Nanomaterials Effect On Hot Mix Asphalt Concrete



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LAP Lambert Academic Publishing Feb 2018, 2018. Taschenbuch. Condition: Neu. Neuware - During past years different researchers studied reasons of failure of flexible pavements and offered variety of alternatives for solving these problems. Some were focused on failures that sourced from hot mix asphalt and it is believed that resistance of an asphalt concrete mixture to fatigue, rutting, raveling and low temperature cracking will determine the performance of an asphalt concrete mixture. This study conducted to determine the optimum amount and potential applicability of zycotherm nano material with asphalt and asphalt concrete mixtures in two different system: directly applying to bitumen and diluting and applying to aggregate in order to address the solution of potential failure problems in flexible pavements. Tensile strength test and retained stability tests were performed on bituminous mixture in order to measure (TSR) and (RSI) which are both index parameters determine mixture resistance to de bonding and disintegration in the presence of water. Penetration, softening point, RTFOT, PAV, BBR and DSR tests were performed on bitumen to determine the effect of zycotherm.it was found that using zycotherm material greatly increases resistance of hot mix asphalt. 92 pp. Englisch.

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