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Title:Mechanical and Fracture-Mechanical Properties of
Asphalt-Concretes

Author(s):E. K. Tschegg, J. Macht, M. Jamek, and J.
Steigenberger

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Abstract:

This paper deals with the testing and assessment of the bond behavior and the crack resistance of asphalt-concrete interfaces tested at different temperatures, which are necessary for the rehabilitation of rutted asphalt pavements with the so-called whitetopping technology. Different pretreatments of the interface were performed: without any treatment, using cement grout, using a combination of cement grout and synthetic dispersion, or using only synthetic dispersion. The mechanical and fracture mechanical properties were determined by means of the pullout test and a wedge splitting test. The tests were performed at temperatures of -10 , 0 , 10 , and 22 °C (14 , 32 , 50 , and 71.6 °F).

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