

## Assessment of water sensitivity of asphalt rubber mixtures for wearing course

F.A. Batista & M.L. Antunes

*Laboratório Nacional de Engenharia Civil, Lisboa, Portugal*

P. Fonseca

*RECIPAV, Cartaxo, Portugal*

**ABSTRACT:** To assess the water sensitivity of asphalt rubber mixtures an experimental study was carried out, in which different types of gap-graded mixtures applied in wearing courses were used. The experimental study compares the results obtained by the test method traditionally used in Portugal - the American army standard MIL-STD-620A—method 104 - with those obtained through the EN 12697-12:2008-method A. The application of the European standard leads to lower values of retained resistance than those obtained with the American army standard and allows for a better distinction of the behavior of different mixtures. This paper presents the main results achieved so far, and contributes for the achievement of reference values for water sensitivity of gap-graded asphalt rubber mixtures determined according to the European standard EN 12697-12:2008—method A.