

## Iicrc Water Damage Test Answers

Use of Antistripping Additives in Asphaltic Concrete Mixtures  
Moisture Damage in Asphalt Concrete  
Improved Conditioning and Testing Procedures for HMA Moisture Susceptibility  
PRO 28: 6th International RILEM Symposium on Performance Testing and Evaluation of Bituminous Materials (PTEBM'03)  
Determine Parameters Causing Water Damage to Asphalt Concrete  
Implication of Aggregates in the Design, Construction, and Performance of Flexible Pavements  
Environment-Friendly Construction Materials  
Engineering News-record  
Evaluation of Procedures Used to Predict Moisture Damage in Asphalt Mixtures  
The Log Views  
HRIS Abstracts  
Asphalt Materials, Mixtures, Construction, Moisture Effects, and Sulfur  
The Standard  
Asphalt Paving Technology  
The Indicator  
Accelerated Performance-related Tests for Asphalt-aggregate Mixes and Their Use in Mix Design and Analysis Systems  
Indicator and National Journal of Insurance  
Water Sensitivity of Asphalt-aggregate Mixes  
National Fire Codes for Extinguishing and Alarm Equipment  
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this synthesis will be of interest to pavement designers construction engineers maintenance engineers and others interested in avoiding or limiting moisture damage in asphalt concrete information is provided on physical and chemical explanations for moisture damage in asphalt concrete along with a discussion of current practices and test methods for determining or reducing the susceptibility of various asphalt concrete components and mixtures to such damage moisture damage in asphalt concrete is a nationwide problem which often necessitates premature replacement of highway pavement surfaces this report of the transportation research board describes the underlying physical and chemical phenomena responsible for such damage current test methods used to determine the susceptibility of asphalt concretes or their constituents to moisture damage are described and evaluated additionally current practices for minimizing the potential for moisture damage are examined

explores whether combining the environmental conditioning system with the simple performance test would provide a superior procedure for determining the moisture susceptibility of hot mix asphalt hma

this report summarizes research involving the determination of parameters causing water damage to asphalt concrete the study was a cooperative effort between the federal highway administration fhwa and nmeri bituminous mixtures with a history of water susceptibility were fabricated by fhwa compacted mixtures were evaluated for moisture damage at fhwa then shipped to nmeri for chemical analysis of the binders extracted binders were analyzed by a modified clay gel procedure and infrared spectroscopy to determine whether differences between moisture conditioned and control asphalts could be measured an index of relative severity water damage has been defined from analysis of the data changes in certain asphalt chemical constituents may relate to retained strength for mixtures without antistripping additives potential moisture damage is predicted equally with a least two mechanical tests used for mixtures antistripping compounds keywords clay gel compositional analysis asphaltenes saturates aromatics polars asphalt generic composition asphalt functional group concentrations ketones sulfoxides carboxylic acids ir spectroscopy lottman procedure immersion compression percent retained strength antistripping additives or agents moisture damage severity and degree of relative severity

construction materials are the most widely used materials for civil infrastructure in our daily lives however from an environmental point of

view they consume a huge amount of natural resources and generate the majority of greenhouse gasses therefore many new and novel technologies for designing environmentally friendly construction materials have been developed recently this special issue environment friendly construction materials has been proposed and organized as a means to present recent developments in the field of construction materials it covers a wide range of selected topics on construction materials

this report provides a brief summary of the processes that led to the selection of performance related tests to define asphalt aggregate interactions that result in fatigue permanent deformation thermal cracking aging and water sensitivity inherent in this test selection process was the emphasis on the ability of the tests to measure fundamental material properties that when incorporated into prediction models will depend less on empirical correlations than has been traditionally the case also included are the results of validation studies for each of the tests and frameworks for the use of the tests in mix design and analysis several levels of design are provided for each distress some of which incorporate reliability concepts

the research presented in this report was conducted to identify the important factors influencing the water sensitivity of asphalt paving mixtures and to develop a test method to evaluate water sensitivity of asphalt concrete mixtures for mix design the test method was to be performance related a review of current procedures revealed that no single method was suitable for evaluation and related to field performance based on a hypothesis that air voids in the mixture may be the major source and cause of water damage a test system was developed to evaluate the major factors that influence water sensitivity the environmental conditioning system ecs was used to develop a test procedure that includes specimen preparation measurement of permeability using air water or both vacuum wetting cycling at various temperatures and continuous repeated loading while monitoring resilient modulus after each conditioning cycle

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