



Moisture Behaviour in Shear Bond Properties of FRP-Concrete Interface

By Justin Shrestha

LAP Lambert Academic Publishing Aug 2013, 2013. Taschenbuch. Book Condition: Neu. 220x150x7 mm. This item is printed on demand - Print on Demand Neuware - This book is very useful in giving insight to the moisture related durability issues in bonding between Fiber Reinforced Polymer (FRP) and concrete. The experimental study is divided into two parts. The first part includes test mechanical properties of the resin and the concrete under the influence of water. In the second part, single lap shear bond test was conducted to compare the ultimate bond strength, failure modes, fracture energy, bond stress-slip curves with and without water immersion at different exposure periods. Finally, using the experimental results, a simple unified bond stress-slip relation was proposed ignoring the immersion duration and resin type which could address both non-immersion and immersion case. The proposed model showed good agreement with the experimentally observed local bond stress-slip relations for normal/high strength bond specimens with and without water effect. 124 pp. Englisch.



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