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# Sustainable Structural Concrete

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LAP Lambert Academic Publishing Aug 2014, 2014.

Taschenbuch. Book Condition: Neu. 220x150x18 mm. This item is printed on demand - Print on Demand Neuware - The work presented in this book aims are to i) understand and improve the bonding characteristics between crumb rubber and cement paste, and ii) scale-up the use of the material from lab to full-sized reinforced sections. Chapter One presents an introduction for this work while an extensive review of literature was summarised in Chapter Two. The methodology and the used materials were highlighted in Chapter Three. The experimental results of a parametric investigation that conducted to determine the effect of crumb rubber replacement on the fresh, mechanical and thermo-physical properties of PRC and SCRC at different w/c ratios was presented in Chapters Four and Five for PRC and SCRC respectively. In Chapter Six, the relative effects of different pre-coating/ treating methodologies were evaluated in terms of ITZ porosity, interfacial bonding, and mix air entrapment. The full-scale serviceability of steel-reinforced PRC and SCRC was experimentally measured and assessed in terms of mechanical structural behaviour, steel reinforcement bond-slip strength, and material durability including chloride ion diffusion and water penetration and the results were presented in Chapter...



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