

STUDY ON THE CHARACTERISTICS AND APPLICATIONS OF HIGH STRENGTH CONCRETE

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ABSTRACT

High strength concrete has better and even more superior properties over conventional concrete. High strength concrete carries the answer to our future development progress, which is particularly important given the Earth's depleting resources. This study reports the characteristics and the areas of applications of high strength concrete, with emphasis mostly based on what is achievable in practice. The key attributes of high strength concrete discussed are the material properties such as mechanical properties, durability properties and sustainability. The intrinsic difference between high strength concrete in comparison with conventional concrete will be discussed throughout this report. The advantages in terms of strength, durability, cost and its effect towards the environment are studied. This report covers the applications of high strength concrete in Malaysia and worldwide as well.