Abstract

The aim of the study presented in this memory is to characterize experimentally the behavior of aggregate grading on the mechanikal behavoir of coneret high perfomance , the work presented for tests with a compression press and traction machine to achieve the levels of risistance in the order of mega pascal.

The compression test in performed on cylindrical specimens(16x32)cm,whose ends have already beemrectified, and the flexural tention test on prismatic specimens (10x10x40) cm, made in part on four mixtures of ordinary concert and other four high perfomance concrete (variables granular classes).

Studies on the behavior of aggregate grading on the mechanical behavoir of high perfomance concrete required the formulation of a ordinary concrete and high perfomance concrete with diffirent gradings.

The analysis of test compression and traction made on ordinary high perfomance concrete

results show that the granular gravel class has an important behavior on the mechanical behavior of high performance concrete.

This behavior is particularly noticeable on the shape of the curve compressive strength and tention strength as a function of age (the straight increases with the age of concret).

Keywords: superplasticizer, Silica fume, high performance concrete.