

ULTRA-HIGH PERFORMANCE CONCRETES HAVING A LOW CEMENT CONTENT

ABSTRACT

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The present invention relates to a hydraulic binder comprising, as percentage by mass:
- from 17 to 55% of a Portland cement, the particles of which have a D50 of from 2 μm
to 11 μm ; - at least 5% of silica fume; - from 36 to 70% of a mineral addition A1, the
particles of which have a D50 of from 15 to 150 μm ; the sum of these percentages
10 being from 80 to 100%; the sum of the percentages of cement and of silica fume being
greater than 28%; the mineral addition A1 being selected from slags, pozzolanic
additions or siliceous additions such as quartz, silico-calcareous mineral additions,
calcareous additions such as calcium carbonate or mixtures thereof.

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[No Suitable Figure]