

STEELFIBRE FOR HIGH PERFORMANCE SHOTCRETE, THE WAY TO MORE COST EFFICIENCY

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This paper shows the relations between costs and time of high performance products and process optimizing. Owner and at least contractors are under permanent cost and time pressure. The experience in the shotcrete pumps and machine are in a high level in case of volume and performance. However looks the contractor for more value engineering too save money and time. The important step is to change the established way and optimizing the process to more efficiency. The ready mix are fast, well applicable and the end result of the concrete is always in a good or high quality. Steel fibre manufacturer optimize theirs steel fibers to high performance products, with 2'200 Mpa. The combination of high performance concrete and high performance steel help to minimizing time consumption and abrasion in pipes, pumps and nozzle.

Invitation of bids take the wording of standards and guidelines, that's meaning they need 30 kg/m³ steel fibers for 700 J in the absorption test. High performance fibre take more than 1800 J with this dosage rate. The involved parties must work together to fund the cost and time effective solution.

The presentation show the audience the technical frame, the way of development for the using on the sites with different samples. The steps to develop the end redymix are sometime theoretical and some more empiric. But always we need less fibre (<40% for) the same performance.

The presentation show us the handling of the requirements, basis, standards, guideline and more from designers view, the contractors view and the owners view. How we manage this and how big the result of this is.

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