

CONSTRUCTION MATERIAL MIXTURE AND METHOD FOR ITS PRODUCTION
AND ITS USE

ABSTRACT

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The invention relates to a construction material mixture as a concrete additive. The construction material mixture contains a pozzolanic substrate and a photocatalyst. The pozzolanic substrate and the photocatalyst are present as a dry mixture. The dry mixture is a cement-free dry mixture, wherein the photocatalyst has a primary particle size between 2 nm and 100 nm, and at least 90% by weight of the pozzolanic substrate consists of fly ash with a grain size between 0.1 μm and 1 mm. The substrate and the photocatalyst are intensively mixed such that the photocatalyst is at least partly distributed on the surface of the substrate. The construction material mixture improves the processing of a concrete in comparison to the use of other pozzolanic substrates for the catalyst.

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(Figure 1c)