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(54) Titre : SUSPENSION AQUEUSE STABILISEE POUR DECLENCHER LA PRISE ET LE DURCISSEMENT DE
COMPOSITIONS DE CIMENTS ALUMINEUX
(54) Title: STABILIZED AQUEOUS COMPOSITION FOR INITIATING SETTING AND HARDENING OF ALUMINOUS
CEMENT COMPOSITIONS

(57) **Abrégé/Abstract:**

The present invention pertains to a long-term stabilized aqueous initiator composition for initiating setting and hardening of aluminous cement compositions, comprising at least one activator component comprising at least one alkali and/or alkaline metal salt, at least one accelerator component comprising at least one water-soluble alkali and/or alkaline metal salt, at least one retarder selected from the group consisting of citric acid, tartaric acid, lactic acid, salicylic, gluconic acid and mixtures thereof, at least one mineral filler selected from the group consisting of limestone fillers, corundum, dolomite, alkaline- resistant glass, crushed stones, gravels, pebbles and mixtures thereof, at least one thickening agent, and water; to a method for preparing the long-term stabilized aqueous initiator composition as well as to the use of said composition in a system for chemical fastening of anchoring means in mineral surfaces.

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Stabilized aqueous composition for initiating setting and hardening of aluminous cement compositions

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FIELD OF THE INVENTION

10 The present invention pertains to a long-term stabilized aqueous initiator composition for initiating setting and hardening of aluminous cement compositions. In particular, the long-term stabilized aqueous initiator composition comprises at least one activator component comprising at least one alkali and/or alkaline metal salt, at least one accelerator component comprising at least one water-soluble alkali and/or alkaline metal salt, at least
15 one retarder selected from the group consisting of citric acid, tartaric acid, lactic acid, salicylic, gluconic acid and mixtures thereof, at least one mineral filler selected from the group consisting of limestone fillers, corundum, dolomite, alkaline-resistant glass, crushed stones, gravels, pebbles and mixtures thereof, at least one thickening agent, and water. Moreover, the present invention pertains to a method for preparing the long-
20 term stabilized aqueous initiator composition as well as to the use of said composition in a system for chemical fastening of anchoring means, preferably of metal elements, in mineral surfaces, such as structures made of brickwork, concrete, pervious concrete or natural stone.

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BACKGROUND OF THE INVENTION

Aqueous compositions, in particular aqueous suspensions are heterogeneous mixtures containing solid particles that are sufficiently large for sedimentation and come in the form of more or less of a fluid or paste. The advantage of such suspensions is, that they
30 form ready to use solutions to be directly employed in any application for construction chemistry, such as chemical fastening of anchoring means, preferably metal elements, such as anchor rods, in particular threaded rods, bolts, steel reinforcement bars or the

