

Title (en)

MONO- AND BISALKYLENE TRIALKOXYASILANES AS DISPERSANTS FOR HYDRAULIC BINDERS

Title (de)

MONO- UND BISALKYLENTRIALKOXYASILANE ALS DISPERGIERMITTEL FÜR HYDRAULISCHE BINDEMittel

Title (fr)

MONO- ET BISALKYLÈNTRIALKOXYASILANES COMME AGENTS DISPERSANTS POUR LIANTS HYDRAULIQUES

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Application

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Abstract (en)

[origin: WO2016062552A1] The invention relates to mono- and bisalkylene trialkoxysilanes of general formula (I), wherein –Y– stands for –O– or –N(R₉)₂–; each –Z– is the same or different and is selected from the group consisting of –O– and –CHR₄b–; a stands for 1 if –Y– equals –O– and for 1 or 2 if –Y– equals –N(R₉)₂–; m is a natural number from 1 to 20; n is a natural number from 7 to 200; each R₁ is the same or different and is selected from the group consisting of methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, sec-butyl, tert-butyl, and phenyl; and R₂, R₃, R₄a, R₄b, R₅, R₆, R₇, R₈, and R₉ each stand independently for H, suitable linear or branched C₁-C₂₀ alkyl or possibly C₂-C₂₀ alkenyl, C₂-C₂₀ alkynyl, C₁-C₂₀ alkanoyl, C₃-C₂₀ alkenoyl, ω-carboxy-(C₁-C₆ alkyl)carbonyl, and ω-carboxy-(C₂-C₆ alkenyl)carbonyl and/or C₇-C₂₀ aryloyl. The invention further relates to methods for producing said mono- and bisalkylene trialkoxysilanes, the use of said mono- and bisalkylene trialkoxysilanes as dispersants in aqueous suspensions of gravels and of hydraulic binders, and to said aqueous suspensions as such.

IPC 8 full level

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