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Cement & Concrete Composites 25 (2003) 1203–1205

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doi:10.1016/j.cemconcomp.2003.08.001

6514595

INTEGRATED MARKING MATERIALS

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A dry formulation for an integrated marking material for concrete and asphalt application comprises a cementitious mixture including a hydraulic or cementitious binder, a redispersible polymeric cement modifier, a retroreflective agent filler, and optionally, a reflective agent filler. The formulation preferably includes a pigment, aggregate, a dispersant, a plasticizer, and/or a water reducer. The formulation optionally includes at least one admixture selected from an accelerator, an air entrainer, a defoamer, fibers, an inert filler, a natural clay, a pozzolanic filler, a retarder, a rheology modifier, a shrinkage compensating agent, a synthetic clay, a suspending agent, and a thickening agent. The marking material, when applied, has broadcast onto and embedded into its surface, additional retroreflective agents.

6516883

METHODS OF CEMENTING PIPE IN WELL BORES AND LOW DENSITY CEMENT COMPOSITIONS THEREFOR

Jiten Chatterji, Roger S. Cromwell, Darrel C. Brenneis, Bobby J. King
USA
Assigned to Halliburton Energy Services Inc.

The present invention provides methods of cementing pipe in well bores and low density cement compositions having enhanced compressive, tensile and bond strengths upon setting. The composition of the invention are basically comprised of a hydraulic cement, sufficient water to form a slurry and hollow glass microspheres surface treated with a mixture of organosilane coupling agents present in an amount sufficient to produce a cement composition density in the range of from about 6 to about 12 pounds per gallon.

6516884

STABLE WELL CEMENTING METHODS AND COMPOSITIONS

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The present invention provides stable well cementing methods and compositions for sealing subterranean zones penetrated by well bores. The improved thermally stable and degradation resistant well cement compositions are basically comprised of a hydraulic cement, sufficient water to form a pumpable slurry, an aqueous hydrogenated styrene-butadiene rubber latex and a latex stabilizer present in an amount sufficient to stabilize the hydrogenated styrene-butadiene latex.

6537365

CEMENT CLINKER, CEMENT COMPOSITION, METHOD FOR PRODUCING CEMENT CLINKER, AND METHOD FOR TREATMENT OF WASTE CONTAINING ALKALI COMPONENT

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Assigned to Sumitomo Osaka Cement Company Ltd.

Cement clinker, characterized in that it comprises Al_2O_3 and Fe_2O_3 wherein the mass ratio of Al_2O_3/Fe_2O_3 is 0.05–0.62, and alkali components and C_2S wherein the content Y (mass%) of alkali components and the content X (mass%) of C_2S satisfy the formula: $0.0025X+0.1?Y?0.01X+0.8$. The production of the clinker allows the incorporation of alkali components into cement with an advantageous effect of enhancement of the hydration of belite and also with suppression of the lowering of flowability, which leads to the reuse of wastes containing alkali components as a cement raw material.

6537366

CONCRETE ADMIXTURE WITH IMPROVED DURABILITY AND EFFLORESCENCE CONTROL CONTAINING A HIGHLY RESILIENT COLORANT

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Assigned to Color and Chemical Technologies Inc.

A composition for coloring concrete and methods for making the composition is provided, which includes a hydrophobic efflorescence control agent selected from the group consisting of calcium stearates, zinc stearates, sodium stearates, butyl stearate, stearic acid derivatives,

stearic acid salts, and a mixture thereof, a particulated polymer selected from the group consisting of styrene-based polymers and copolymers, acrylic-based polymers and copolymers, polyvinyl acetates, polyepoxides, polyurethanes, butadiene rubbers, and a mixture thereof; and a colorant, wherein the composition improves the durability of the concrete while enhancing the durability and retention of said colorant.

6541545

GROUTING COMPOSITIONS

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USA
Assigned to E.I. du Pont de Nemours and Company

An composition is provided which comprises a first component and a second component in which the first component comprises a peroxide, a liquid which comprises water, a sugar, and a solid particulate; and the second component comprises a polymer, a crosslinking agent, and a solid particulate. Also disclosed are processes for reducing fluid loss in a grouting composition and for anchoring a reinforcing member in a hole using the composition disclosed above.