

5749962

METHOD OF MAKING CEMENT FROM BASE METAL SMELTER SLAG

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Cement is made from base metal smelter slag produced by a nickel, copper, lead or zinc smelter. The slag is ground to a size within the range of from about 250 to 425 mesh to produce ground slag cement, and the ground slag cement is mixed with Type 3 high early strength Portland cement in a ratio of at least about 0.5:1 by weight to produce a blended cement.

5750053

CORROSION INHIBITOR FOR REDUCING CORROSION IN METALLIC CONCRETE REINFORCEMENTS

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A corrosion inhibitor formulation for use in reinforced concrete structures, the inhibitor reducing the rate of corrosion in metallic reinforcing rods placed within the structures. The formulation comprises a mixture of alkali metal glucoheptonates and alkali metal molybdates.

5750276

TREATMENTS FOR CONCRETE

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PCT No. PCT/GB92/02345 Sec. 371 Date Sep. 8, 1994 Sec. 102(e) Date Sep. 8, 1994 PCT Filed Dec. 17, 1992 PCT Pub. No. WO93/12052 PCT Pub. Date June. 24, 1993. This invention relates to a method of inhibiting alkali-silica or alkali-aggregate reactions (AAR/ASR) in concrete structures by introducing lithium compounds or the like in conjunction with con-

ventional techniques for the treatment of steel reinforcement corrosion. It is also proposed to provide lithium compounds in repair concretes, grouts or mortars and use the difference in concentration between the article under repair and the repair material to introduce the lithium ions into the concrete under repair, once again inhibiting AAR/ASR reactions.

5753036

POLY(VINYL ALCOHOL) STABILIZED ACRYLIC POLYMER MODIFIED HYDRAULIC CEMENT SYSTEMS

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Mortar formulations comprising a hydraulic cement and a PVOH stabilized acrylic latex or a spray dried redispersible powder made from the PVOH stabilized acrylic latex are disclosed. These include formulations suitable for use as tile mortars, patching mortars, EIFS base coats and grouts. An acrylic latex that, when formulated with hydraulic cement, has performance advantages over other latex resins in mortar, patch and exterior insulation and finishing systems. The spray dried, redispersible acrylic emulsion polymer that, when formulated with hydraulic cement, has comparable or better performance than a liquid latex in mortars and patches.

5755876

CEMENT COMPOSITIONS FOR CONTROLLING ALKALI-SILICA REACTIONS IN CONCRETE AND PROCESSES FOR MAKING SAME

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Processes for making cement which when used to make concrete can stabilize the concrete against alkali-silica reactivity (ASR) from alkali containing components. The process includes adding lithium containing materials in the front of a cement kiln along with the cement starting materials in an amount sufficient to minimize ASR.