CLAIMS

1. A hydraulic binder for a mortar composition comprising at least one ground granulated high-alumina slag comprising less than 30% by weight of silica, said high-alumina slag being a slag wherein alumina is the most abundant constituent, said ground granulated high-alumina slag is predominantly amorphous.

2. The binder as claimed in claim 1, such that the ground granulated high-alumina slag comprises between 30% by weight and 60% by weight of alumina, preferably between 32% and 45% by weight of alumina.

3. The binder as claimed in either of the preceding claims, such that the silica content of the ground granulated high-alumina slag is between 5% and 25% by weight, in particular between 10% and 20% by weight.

4. The binder as claimed in the preceding claim, such that the ground granulated high-alumina slag is in the form of ground granules having a D50 particle diameter of less than 20 µm, preferably of less than 15 µm.

5. The binder as claimed in one of the preceding claims, such that the ground granulated high-alumina slag is derived from the recycling, by complete melting, of catalysts used for the desulfurization of petroleum products, in particular of catalysts based on molybdenum and/or cobalt.

6. The binder as claimed in one of the preceding claims comprising said ground granulated high-alumina slag and at least one of the following constituents:

- one or more cements chosen from Portland cements, belite cements, high-alumina or sulfoaluminate cements, cements formed of pozzolanic mixtures optionally comprising fly ash, silica fumes, limestone, calcined schist and/or natural or calcined pozzolans, and/or
- a source of calcium sulfate chosen from plaster, hemihydrate, gypsum and/or anhydrite, alone or as a mixture.

7. The binder as claimed in one of the preceding claims, which is constituted of said ground granulated high-alumina slag and of Portland cement, the content of ground granulated high-alumina slag being less than 40% by weight, preferably less than 20% by weight.

8. The binder as claimed in one of claims 1 to 6, comprising between 10% and 50% by weight of Portland cement, between 30% and 70% by weight of said ground granulated high-alumina slag, and between 10% and 50% by weight of calcium sulfate.

9. A dry mortar composition comprising at least one binder as claimed in one of the preceding claims and aggregates and/or fillers.

10. The composition as claimed in claim 9, which is free of high-alumina or sulfoaluminate cement.

11. The composition as claimed in either of claims 9 and 10, comprising one or more additives, chosen from rheological agents, water-retaining agents, air-entraining agents, thickeners, biocidal protecting agents, dispersants, pigments, accelerators and/or retarders, or polymeric resins.

12. Floor products such as coatings or screeds, or technical mortars, capable of being obtained by mixing the dry mortar composition as claimed in one of claims 9 to 11 with water.