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(54) **Title:** METHOD FOR MANUFACTURING OF SUPPLEMENTARY CEMENTITIOUS MATERIALS (SCMS)

(57) **Abstract:** Method for manufacturing of supplementary cementitious materials for replacement of Portland cement in production of mortars and concretes, where the cementitious materials comprises natural pozzolans in the form of rocks and ashes. The invention is characterized in, that the said pozzolans in crushed state are subjected to a high energetic mechanical processing by means of grinding in a grinding equipment, whereby the pozzolan particles receive mechanical impulses, and in that the grinding is carried out for a predetermined time resulting in a compressive strength of a 2 inch side cube of mortar comprising 80 % Portland cement and 20 % natural pozzolan in a ratio of 1:2.75 to standard sand and in addition water required to obtain a flow of the mortar according to American standard ASTM C 109, which has been properly compacted under vibration and hardened at + 20 °C in sealed condition, which after 28 days is ≥ 75 % of the compressive strength of a 2 inch side cube, treated as said cube, of a mortar comprising a ratio of Portland cement: sand of 1:2.75 and in addition water corresponding to 48.5 % of the weight of Portland cement.

