

Title (en)

METHOD AND DEVICE FOR STRESS RELAXATION AT THE END OF COMPACTING A MIXTURE OF AN AGGREGATE AND A BINDER

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Application

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Abstract (en)

[origin: US4826419A] The invention relates to a process for relaxing lateral stresses at the end of shaping by compacting of a block constituted by an aggregate and a binder (such as a carbon-containing paste), to which is applied a main monoaxial stress in a rigid mold having a bottom and four side walls. According to the process, at the end of compacting and along the compacting axis, there is maintained a residual stress of between 50 and 2000 kilopascals, and preferably between 100 and 500 kilopascals. At least two of the side walls of the mold are then moved apart by a few millimeters, followed by the elimination of the main stress and the extraction of the molded block. The residual stress is maintained for a period of between 1 and 20 seconds following the moving apart of the walls.

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