

Title (en)
THERMALLY CROSS-LINKED BITUMINOUS COMPOSITIONS COMPRISING CLAY PARTICLES, ASSOCIATED METHODS AND USES

Title (de)
THERMISCH VERNETZTE BITUMINÖSE ZUSAMMENSETZUNGEN MIT TONTEILCHEN, ZUGEHÖRIGE VERFAHREN UND VERWENDUNGEN

Title (fr)
COMPOSITIONS BITUMINEUSES THERMORETICULEES COMPRENANT DES PARTICULES D'ARGILE, PROCEDES ET UTILISATIONS ASSOCIES

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Application
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Abstract (en)
[origin: WO2020254763A1] The invention relates to bituminous compositions comprising: - a matrix formed by thermal cross-linking of a mixture comprising: *a bitumen base, *a thermally cross-linkable elastomer, chosen among the thermally cross-linkable block copolymers of formula S-B-S, also called thermally cross-linkable SBS elastomers, in which each S independently represents a block made of aromatic monovinyl hydrocarbon monomers, B represents a block made of butadiene monomers, the block B comprising pendant vinyl groups, and in which the blocks S represent, together, at least 15% by moles of the total number of moles of monomer units of the thermally cross-linkable block copolymer, the thermally cross-linkable block copolymers having a weight average molecular mass ranging from 40,000 to 500,000 g/mol and having a pendant vinyl group content greater than or equal to 20% by moles, with respect to the total number of moles of thermally cross-linkable block copolymer monomer units, and *an olefinic polymer adjuvant functionalised with epoxide groups, and in particular with glycidyl groups, - clay particles distributed in the matrix. The invention also relates to a method for preparing such compositions, as well as their use in the road-construction and industrial fields.

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