

Title (en)

PROCESS FOR THE PREPARATION OF BITUMINOUS MIXES AND ASPHALTS AT LOW TEMPERATURES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON BITUMINÖSEN GEMISCHEN UND ASPHALTEN BEI NIEDRIGEN TEMPERATUREN

Title (fr)

PROCEDE DE PREPARATION D'ENROBES ET D'ASPHALTES A BASSES TEMPERATURES

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Application

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Abstract (en)

[origin: WO2012049579A1] The present invention relates to a process for preparing bituminous mixes and asphalts at lower temperatures. The process involves the mixing of a bituminous binder to which aggregates are added for the bituminous mixes or to which fillers are added for the asphalts, the bituminous binder being added to by means of an additive having the general formula (1): - R1 and R2, which are identical or different, represent a hydrogen atom or a polyalkenyl group, a double bond optionally being present between the two carbon atoms bearing the groups R1 and R2, - X represents an oxygen atom or a group: - R3 and R4, which are identical or different, represent a hydrogen atom or a hydrocarbon-based group containing from 1 to 10 carbon atoms, - R5 represents a hydrogen atom or a hydrocarbon-based group containing from 1 to 24 carbon atoms, - m represents an integer between 1 and 10, - n represents an integer between 1 and 3, - p represents an integer equal to 0 or 1, it being understood that when the additive of general formula (1) is a polyisobutylene succinic anhydride, the bituminous binder is free of epoxide resin. This additive of general formula (1) makes it possible to reduce the manufacturing, processing and/or compacting temperatures of the bituminous mixes formulated from said additive-containing bituminous binder and to reduce the manufacturing and/or processing temperatures of asphalts formulated from said additive-containing bituminous binder.

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