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(57) Abstract :

A method of preparation of a Stone Matrix Asphalt (SMA) mixes with areca fibres (100) comprising: extracting areca fibres manually from areca husk (101); cutting the areca fibres to a desired length of 25-30 mm (102); prepare the aggregates as per the required aggregate gradation, add the cut fibres and mix them thoroughly while heating to the required temperature (103); add viscosity grade bitumen (VG 30) to the mixture of aggregates and fibres; and heat them to the specified mixing temperature (104); wherein the areca fibres mix with the Stone Matrix Asphalt (SMA) mix and helps reduce the drain down and improve the mechanical and volumetric properties of SMA. << FIG. 1>>

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