



COMPARATIVE STUDY OF SBS AND EVA POLYMER MODIFIED BITUMEN- A REVIEW

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Abstract: The deterioration of the bituminous pavements is because of various conditions prevailing in the country like in addition to the heavy climate and also due to extreme climatic condition. The quality of bitumen could be improved by the addition of polymer as well as improving the quality of binder and also enhancing the property of binder used for the construction of pavements. Due to the prolonged exposure to air and environmental conditions of the bitumen, the major or principle factors take place which causes the deterioration of the asphalt pavements that is Bitumen ageing. There are two types of binder ageing long term ageing and short term ageing. Long-term ageing takes place after pavement construction and is generally due to loading and environmental exposure and Short-term ageing takes place when binder is mixed with aggregates in a mixing plant.

ISSN : 2278-6848



9 772278 684800 03
© International Journal for
Research Publication and Seminar

Keywords: *Polymers, Bitumen, SBS and EVA.*

1. Introduction

Increase in the traffic factors like heavier loads, higher traffic volume, and tire pressure increased the demand of high performance pavements. A high performance pavement requires asphalt cement that is less prone to low temperature cracking or high temperature rutting. Asphalt exposed to a wide range of load and weather conditions, however, does not have good engineering properties, because it is brittle in cold weather and soft in a hot environment. Hence to improve the mechanical property asphalt is generally strengthened by polymers A limited number of polymers have been employed to mix with asphalt, including thermoplastics

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