

E2-39: Performance of latex bitumen emulsions on road surfaces

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It has been known for many years, that certain characteristics of bitumen, such as ductility, penetration and softening point could be improved by blending bitumen with a small percentage of rubber.

Many trials have been performed by various researchers by incorporating rubber into hot bitumen and promising results obtained. However, this has not been implemented commercially, probably due to the practical difficulties encountered in incorporating rubber into hot bitumen. This paper describes the results of an investigation carried out by incorporating rubber latex into bitumen emulsions. An efficient method for this incorporation was designed with the assistance of Road Development Authority.