

MODIFIED FLEXIBLE PAVEMENT

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This project focuses on improving the performance of flexible pavements through the use of composite blends of different fibers and the introduction of innovative construction methods. Flexible pavements commonly used in road infrastructure often experience challenges such as cracking, rutting, and fatigue due to various factors such as traffic loads, climatic conditions, and material properties.

The focus is to evaluate the performance achieved by incorporating fibers such as polyester fibers and rubber fibers into bitumen mixtures. This study includes an extensive literature review to identify suitable fiber types, such as synthetic fibers (polyester) that can be incorporated into pavement mixtures to improve strength and flexibility. The aim of this project is to provide a sustainable solution to improve the durability and performance of flexible pavements by combining the advantages of different fiber types and optimizing the construction method.