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## *Utilization of recycled rubber in pavement*

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## **Abstract:**

Over the past few decades, there has been a significant increase in interest in the use of recycled tyre rubber in asphalt pavements to enhance the overall performance, economy, and sustainability of pavements. According to numerous studies, recycled tyre rubber can lower the long-term deformation of flexible pavements, increase their resistance to rutting, lower the cost of building and maintaining pavements, and strengthen their defences against fatigue damage. This review paper offers a methodical and critical review of the literature on the engineering qualities, performance, and durability assessment of recycled tyre rubber used in asphalt pavements. The understanding of employing recycled tyre rubber in asphalt pavements should be improved by this critical review of the state-of-the-art, which should also specify applicable recommendations, point out knowledge gaps, and emphasise the necessity for focused future research

## **Keywords:**

Rubberwaste, Paver, Recycling, Construction materials,Eco- friendly, Sustainable development, Recycled rubber