

# Rubberized Bituminuos Concrete for Durable Road Infrastructure

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**Abstract:** *Rubber is a crucial industrial material used in vehicle tyres, conveyor belts, hoses, footwear, and various household and industrial goods. Among these, automobile tyres represent the largest share of rubber waste generated globally. Modern tyres are made from a complex mix of natural and synthetic rubber, carbon black, steel wires, textile reinforcements, and chemical additives. While they are engineered to be durable and long-lasting, this durability makes their disposal highly problematic. In India alone, over 275,000 tonnes of rubber waste are generated annually, and this number is increasing rapidly due to the growth in the transport sector. The vast majority of this waste comes from used or end-of-life vehicle tyres, which are difficult to dispose of and are non-biodegradable.*

**Keywords:** Rubber

