



Project Requirements Form USDOT
CREATE UTC Contract Number 69A3552348330
Center Lead: Texas State University; Texas State University

team has an active TxDOT project (0-7172) titled “Developing a Performance-Based Concrete Overlay Mix Design for Improved Resistance to Early-Age Cracking and Increased Durability”. The TxDOT project will complement this UTC project and provide a joint effort to develop cracking resistance concrete.

Outcomes/Impacts: The utilization of RSF from scrap tires can potentially replace (partially or completely) the conventional steel reinforcement in continuously reinforced concrete pavement (CRCP) structures. By utilizing recycled steel fibers, which are abundant in the United States, the concrete industry could potentially save millions of tons of manufactured steel fibers (MSF) as well as rebar reinforcement typically used for CRCP applications. This approach promotes sustainable construction practices by reducing the environmental impacts associated with the manufacturing of MSF and rebar. Additionally, RSF is much cheaper, costing only about 10% of the price of MSF and half that of rebar, thereby offering a cost-effective solution.

Final Research Report: URL to final Report will be provided upon completion.