



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



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concrete matrix, effectively blocking the interconnected capillary pores through which water and aggressive agents penetrate. This pore-blocking action not only reduces the permeability of the concrete but also limits the ingress of harmful substances such as chlorides and sulfates, which are known contributors to corrosion and deterioration. By mitigating moisture-induced damage and chemical attack, the pore-blocking effect of SAPs significantly extends the service life of concrete structures, particularly in harsh environments such as coastal regions, where corrosion risk is elevated.

Value propositions and market/trends were already analyzed, and potential customer segments that can benefit from self-sealing concrete technology were identified via preliminary interviews during the regional I-Corps hosted by TXST. Once a patent is registered with the outcomes of this research project, technology transfer will be pursued by forming strategic partnerships with the customer segments and bodies. To broaden partnerships with other stakeholders, the PI will plan to attend industry workshops, seminars, and webinars to introduce the benefits and applications of self-sealing concrete for coastal infrastructure resilience and to disseminate research findings and promote technology adoption within the industry.

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