

<b>UTC Project Information</b>	
Project Title	MPC-648 – Repairing Concrete Structures Using Near-Surface Mounted Composites with Inorganic Resins under Simulated Multihazard Damage
University	University of Colorado Denver
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Funding Source(s) and Amounts Provided (by each agency or organization)	USDOT, Office of the Assistant Secretary for Research and Technology \$60,000  University of Colorado Denver \$60,000
Total Project Cost	\$120,000
Agency ID or Contract Number	69A3551747108
Start and End Dates	March 26, 2021 to July 31, 2023
Brief Description of Research Project	In the United States, deteriorated infrastructure is one of the primary concerns. State and federal agencies spend significant amounts of dollars to maintain the quality of transportation structures. For example, the Fixing America’s Surface Transportation (FAST) Act has authorized \$305 billion to address the immediate need of the nation. This research explores a new opportunity for repairing damaged concrete members using near-surface-mounted composites with inorganic resins. Element- and structure-level experimental investigations are conducted, and practice guidelines are proposed for the benefit of the infrastructure community.
Describe Implementation of Research Outcomes (or why not implemented)  Place Any Photos Here	Technical findings and recommendations can be implemented by transportation agencies when they conduct composite-based repair projects especially with inorganic resins.
Impacts/Benefits of Implementation (actual, not anticipated)	When composite repair is carried out for concrete members, no specific guidelines are currently available. Therefore, this research project address this identified gap and can advance the state of the practice.
Web Links <ul style="list-style-type: none"> <li>• Reports</li> <li>• Project Website</li> </ul>	<ul style="list-style-type: none"> <li>• MPC Research Report – <a href="#">Repairing Concrete Structures Using Near-Surface Mounted Composites with Inorganic Resins under Simulated Multi-hazard Damage</a></li> </ul>