



# Success Story

AZDOT Robert Guerrero 2024

## Project Specs

### Location:

Greater Phoenix, Arizona

### Products:

TechCrete™

*\*Images for illustration  
purposes only.*

*May not represent project.*

## Durable Solutions for Concrete Repairs in Extreme Conditions

**How ADOT's Central District Reduced  
Repairs and Traffic Disruptions with  
Crafco's TechCrete™**

Overcoming new challenges is the most satisfying part of Robert Guerrero's job as a Highway Operations Superintendent in the Arizona Department of Transportation's Central District. So when he was faced with finding the right solution for concrete spalling and potholes on his district's roads, Guerrero approached it like a challenge to be overcome.



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***We used TechCrete to repair hundreds of spalls that had popped out, and it saved us money and closures restrictions, and minimized unsafe exposure to our teams.***

Guerrero has worked in road maintenance for more than 20 years and helps oversee maintenance on nearly 5,500 lane miles of state roadways in the Phoenix metro area, running through nine of the ten largest cities in Arizona.

Most interstate highways in the Phoenix area are concrete due to the intense heat and high traffic volumes. The air temperature routinely surpasses 110°F for several months of the year, and some highway sections carry more than 300,000 vehicles per day – a punishing combination for any pavement.

With such high traffic volumes, the ideal repair material must apply quickly to minimize lane closures and must be durable to avoid repeated repairs. Guerrero's crews tried both cold-applied and hot-applied repair options in the past, but the patches always popped out before long.

About two years ago, Guerrero and his team began using Crafcó's TechCrete, a hot-applied, flexible repair mastic with a unique gray color that blends in with concrete. Specially selected aggregate provides TechCrete's load-bearing strength without compromising flexibility, allowing the material to maintain adhesion while accommodating thermal movement. Rigid repair materials tend to crack under compression, pop out entirely, or break up the surrounding pavement.



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TechCrete is now Guerrero's go-to solution for fast concrete repairs that last. His team pioneered the use of TechCrete on ADOT's Phoenix-area highways, starting with a four-mile stretch of the Arizona 202 SanTan freeway between the busy Interstate 10 and the Arizona 101 Loop. Carrying more than 134,000 vehicles per day, that section of road has developed many joint spalls and corner breaks in the vehicle wheel path. Using TechCrete, Guerrero's crews are able to quickly repair damaged areas without extended traffic disruptions – and without needing to fix the same spots repeatedly.

**"We used TechCrete to repair hundreds of spalls that had popped out, and it saved us money and closures restrictions, and minimized unsafe exposure to our teams," Guerrero says.**

He adds that CrafcO's hands-on training and support have helped his team succeed.

**"I appreciate your sales staff willing to come out day or night and train our staff on the equipment and material application," Guerrero says.**

**Learn more about TechCrete at [crafco.com/techcrete](http://crafco.com/techcrete). To request a demo of TechCrete, email [sales@crafco.com](mailto:sales@crafco.com).**