

CASE STUDY



FEATURING



MANHOLE REHABILITATION PILOT TEST SHREVEPORT, LA

GeoKrete® Selected for Manhole Rehabilitation Test and Exceeds Expectations

PROJECT SNAPSHOT

Project

- GeoKrete® Manhole Rehab Trial

Owner

- City of Shreveport

Problem

- Highly corroded manhole in need of corrosion protection

Application

- Hyperform® Rapid Setting Patching Material
- GeoKrete - 1 1/2" on walls and up to 4" in other places. Troweled to smooth finish.

This was a highly corroded manhole picked by the City of Shreveport as a trial / demonstration for Quadex® GeoKrete®, a structural, corrosion resistant geopolymer mortar. This manhole was approximately 10 ft. in depth and had a forcemain dumping in. The manhole was in desperate need of a structural lining system with extreme corrosion resistant properties.

A 4,000 psi water blast to clean the substrate. The City of Shreveport provided a Vac truck to help remove the enormous amount of gypsum that was cleaned from the manhole walls. All mortar between the concrete blocks was gone due to MIC (microbiologically induced corrosion). Quadex utilized its rapid setting patching material (Hyperform®) to rebuild the bottom and create a flow channel for the incoming force main.

Quadex utilized its GeoKrete geopolymer mortar to structurally restore this manhole to a "better than new" state. The liner averaged 1 1/2" in thickness with having to apply it upwards of 4" in some places.



Compared to Baseline for
Trenchless Repair Systems for
Structural Rehabilitation of
Civil Infrastructure