



REPAIR
MATERIALS

CASE STUDY: MANHOLE REHABILITATION PILOT TEST - SHREVEPORT, LA

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.

GeoKrete Selected for Manhole Rehabilitation Test and Exceeds Expectations

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.



More Information:
Vortex Infrastructure | 713-750-9081
sales@vortexinfrastructure.com

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 ½ inches in thickness with having to apply it upwards of 4 inches in some places.

