



REPAIR  
MATERIALS

## CASE STUDY: MANHOLE REHABILITATION PILOT TEST - BENTON, AR

### SNAPSHOT

- **PROJECT:**  
GeoKrete Manhole Rehab Trial
- **Owner:**  
City of Benton, AR
- **PROBLEM:**  
Heavily corroded manhole with extremely high H<sub>2</sub>S levels
- **APPLICATION:**
  - > HyperForm Rapid Setting Patching Material
  - > GeoKrete - 1 1/2" spray-applied throughout, troweled to smooth finish.

### City of Benton, AR Impressed with GeoKrete in Manhole Rehab Pilot Test

This was a highly corrosive manhole picked by Benton Utilities as a trial / demonstration for Quadex GeoKrete, a structural, corrosion resistant geopolymer mortar. This manhole was approximately 8 ft. in depth and had a forcemain dumping into the manhole upstream. The manhole was in desperate need of a structural lining system containing extreme corrosion resistant properties. H<sub>2</sub>S readings were between 195 & 225 ppm.



*More Information:*  
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The walls were power washed with 4,000 psi and the steps were removed. Because of the severe deterioration of the bench, we rebuilt it higher with Quadex Hyperform to control the flow from spilling over the bench.

This manhole was lined with with approximately 1 ½ inches of Quadex GeoKrete. This is another successful in-field demonstration of Quadex GeoKrete. After being in the ground for over 1 ½ years, the GeoKrete lined manhole is still structurally sound with no signs of corrosion deterioration present.

