



QUADEX

REPAIR
MATERIALS



CASE STUDY: GEOKRETE GEOPOLYMER THE PREFERRED CHOICE TO REHAB 40 MANHOLES IN SINGAPORE

SNAPSHOT

- **PROJECT:** Rehabilitation of Sewerage Network System: Phase 4 - Eastern Area Contract 2
- **LOCATION:** East Coast Area, Singapore
- **PROBLEM:** Excessive I/I, and corrosion
- **SOLUTION:** Quadex's GeoKrete Geopolymer spray-applied to 12mm thickness to achieve desired structural integrity and corrosion protection. Troweled to a smooth finish.
- **CONTRACTOR:** PMPS Liner Technologies (s) Pte Ltd
140 Tagore Lane
Singapore
787560
Mr. Jackie Yeo: CEO
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- **PROJECT TIME FRAME:**
4 months
- **CONTACT:**
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Sewerage System Rehab and Upgrade Utilizes GeoKrete for Manholes

Situation: Leaking and Corroded Concrete Manholes

As part of a much larger project, where over 28km of pipe was being rehabilitated on the East coast of Singapore, 40 manholes were also found to be in need of restoration to arrest I/I and corrosion. Once completed, the newly rehabilitated Sewerage Network System would not only be free of I/I and corrosion, but will also have increased capacity.

GeoKrete Chosen For Cost-Effectiveness, Ease of Use and Positive Test Results

The workers particularly liked the ease of application and the lack of "fall-down" of GeoKrete when compared to other materials. GeoKrete also performed well in 3rd Party testing and the contractor, PMPS Liner Technologies, also demonstrated how easy it was to apply. With those two important factors, GeoKrete was approved. All 40 manholes were rehabilitated over a four month period. To ensure a smooth and consistent wall thickness, a special designed, chain driven, spin-casting spray apparatus was developed. Mounted on a tripod, then centered over the manhole opening, the apparatus is lowered, then raised up and down the manhole until the desired thickness is achieved.



Manhole Before



Manhole After

More Information:
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