Project Report Sheet

BluSeal AKS + BluCem HS200

SEWERAGE TREATMENT PLANT, PALMERSTON

A concrete sewer channel required relining due to severe corrosion, in Palmerston, NT. McRobert Contracting Services and Bluey Technologies were engaged by NT Power and Water to reline the 175m channel, using 2.5mm BluSeal AKS, with temperatures soaring well above 40° C.

PROJECT COMPLETION: DECEMBER 2020
CONTRACTOR: MCROBERT CONTRACTING SERVICES
CLIENT: NT POWER & WATER

APPLICATION

WHERE WE USED BLUSEAL AKS

BluSeal AKS was specified for the project and lined over the existing concrete channel. Used to distribute raw sewage from the trunk-main into larger treatment areas, the channel had become highly corroded, and began leaking through some existing joints and patch repairs.

3m x 2.6m sections of BluSeal AKS were installed per day, taking four weeks to complete. A total of 400m^2 of BluSeal AKS was grouted into the precast channel using BluCem HS200, (our high strength, pumpable grout, with a 2-hour pump life).

WHY WE USED BLUSEAL AKS

Walls of the channels had become severely corroded from Hydrogen Disulphide gas which induced an acid attack on the concrete. The install team was concerned that the severe heat may warp or distort the liner, however the head contractor noted that "once the lining was grouted into place, there was no movement in the plastic, even in direct sunlight." The temperatures were so high that the grout had to be mixed with ice and water to ensure a long and consistent pumpability.

FEATURES

- Resistant to chemical and mechanical impact
- Fully welded homogeneous lining
- Low maintenance
- Time saving and reliable installation
- High anchor pull-out strength

SUMMARY

The contractor and the asset owner were extremely happy with the performance of BluSeal AKS and BluCem HS200. The grout successfully allowed the backfilling of all AKS sheets, in the expected construction time frames and met all desired technical outcomes.