



Chem Grout CG-570 Thick Mix Series

Horizontal boring - cable encapsulation

CASE STUDY

Background

Downer Tenix was awarded the contract for the upgrade of a power substation. Part of the works package required the laying of kilometres of new electrical cable, which would pass under critical infrastructure, including road and rail lines. The thermal conductive grout mix would be used to encapsulate the new underground cable and would be of a thick consistency with durable characteristics. A grout plant with sufficient pumping capability was required to ensure the required depths and distances would be achieved.

CGS Solution

The ChemGrout CG-570 was selected as the most appropriate grout plant for the project, due to its specialised design allowing for mixing and pumping of thicker and denser grout..

The CG-570 includes a 170L single mixing tank equipped with variable-speed, high-efficiency paddles that provide rapid mixing. Wiper blades prevent material buildup on the inside of the mixing tank. The tank outlets are large slide gates that allow the thickest materials to fall easily into the pump hopper. The holding hopper includes an auger to keep the material thoroughly mixed while constantly supplying the pump for continuous operation.

The positive displacement, progressive cavity, rotor-stator pump can deliver over 30 L/min and 500 PSI (34 bar).

Downer Tenix utilised a power pack mounted to a separate skid to power the grout plant. The specialised material was continuously mixed, then pumped a horizontal distance of up to 40m to the point of placement, delivering 30 litres per minute at 261 psi (18 bar). Some 87 bags were mixed in under 3 hours. The clever and simple Chem Grout design meant very easy access and dismantling for after-job clean up.

The CG-570 Thick Mix Series is the perfect grout plant for mixing and pumping thicker specialised grout materials..

Contact CGS Equipment today to discuss how the Chem Grout range can help your business deliver bigger, better projects with confidence.

