

Downer Tenix Substation Upgrade



Background

Downer Tenix is a leading delivery partner to owners of Gas, Electricity, Waste Water, Heavy Industrial and Mining assets across Australia designing, constructing and maintaining network assets. Downer Tenix are currently contracted in Toowoomba QLD upgrading a Substation and laying 3.5km of 110kva electrical cable across the Toowoomba CBD which will supply power to the Toowoomba Grand Central Shopping Centre.

Job Description

The 110kva electrical cable has been laid across the city, passing underneath a local golf course, under several roads and a rail line asset managed by Queensland Rail. Horizontal boring was used in many sections of the project with minimal disruption to rail and road traffic. To encapsulate the cable inside the conduit a **ChemGrout CG570 Diesel Hydraulic Twin Skid** was required to mix and pump Halliburton Barotherm IDP589 thermal conductive grout supplied by Baroid Industrial Products USA. This material contains Graphite 10-30% and Crystalline Silica 60-70%. The grout was mixed and delivered through the hoses and into PE pipe with a specific gravity (SG) measured during the batching providing a reading of 1.36.

ANTEC Product Solution

The ChemGrout CG570 with a 170litre mix tank capacity and a size 6 progressive cavity was able to pump the thick material required a horizontal distance of 40m underneath a rail line, mixing 3 bags each batch. Some 87 bags were mixed in 2hrs and 41 minutes. The high strength aluminium pump provided exceptionally easy access for clean up at the end of the shift. Delivering 30 litres per minute at 261 psi (18 bar) the CG570 was perfect for the application. The mix tank has a slight fall to the holding hopper allowing very easy discharge of thick materials such as the Barotherm IDP589.

Tough, durable and easy to use, ChemGrout proves to be the leader in grout mixer pumps.

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