



ALICE SPRINGS HV POWER DISTRIBUTION

A power authority has invested in upgrading the power distribution network in Alice Springs. Recent installation of an under-bore beneath the rail line at Kennett Court included five conduits for housing of HV cables.

PROJECT COMPLETION: SEPTEMBER 2015

CONTRACTOR: SITZLER BROS

APPLICATION

WHERE BLUCEM LH60 WAS USED

The grout was placed in the DN450 under-bore up to 48m long to encapsulate the HV cable conduits and provide long-term structural integrity under the railway line.

WHY BLUCEM LH60 WAS USED

The electrical design demanded that cement based backfill around the PVC cable conduits had a low thermal resistivity and low exothermic heat to avoid temperature damage to the conduits during curing. Additionally, a requirement in under-bores for high fluidity, low bleed, non shrink and high compressive strength grout influenced the asset owners to approve BluCem LH60. The grout was supplied in 1200kg bulk bags to allow batching in agitator trucks and pumping through a conventional concrete pump.

FEATURES

- Very low thermal resistivity
- Low exothermic heat
- Low bleed, high fluidity and self leveling
- High compressive strength
- Non shrink characteristics

BENEFITS

- Batching in agitators allowed continuous and efficient grout delivery
- Designers obtained excellent thermal transfer/superior cable ratings
- Eliminated the risk of heat damage to PVC conduits
- Ensured completed filling of under-bore /encapsulation of conduits
- Provided structural integrity

SUMMARY

The contractor and the asset owner were very happy with the performance of the BluCem LH60, which allowed the backfilling of the under-bore within expected construction time frames and with all of the desired technical outcomes.





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