Project Report Sheet

# BluCem LH60

## BP SOLAR FARM, WELLINGTON

A 2,400 acre solar farm is being installed to upgrade the power distribution network across rural north west NSW. The RIX Group and Bluey were engaged to fill conduits around high voltage cables that ran from the solar farm, under an existing road to the Wellington Power Station.

**PROJECT COMPLETION:** OCTOBER 2020
**CONTRACTOR:** THE RIX GROUP

### APPLICATION

#### WHERE WE USED BLUCEM LH60

The contractors formed up each end of the 13 conduits with wooden caps and secured them into place (shown right). The grout was mixed on site and pumped into the 10m conduits to fully encapsulate the HV cables. Utilising LH60's low thermal resistivity and high strength properties, Bluey was able to offer a long-term structural solution under the roadway, which remained open to traffic during the entire project.

#### WHY WE USED BLUCEM LH60

The electrical design demanded that the grout utilised to backfill the PVC conduits must have a low thermal resistivity and low exothermic heat. These properties allow for the maximum wattage to be utilised on the HV cables and also reduces damage to the conduits during curing. The high fluidity, low bleed and non-shrink properties also influenced the asset owner's decision in specifying BluCem LH60. The 32 tonnes of grout were supplied in 20kg bags and mixed on site to allow the team to work at a safe and steady pace.

### FEATURES

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

### SUMMARY

The contractor and the asset owner were extremely happy with the performance of BluCem LH60. The grout successfully allowed the backfilling of all 13 conduits within expected construction time frames and met all desired technical outcomes.