

BluCem HS200, GP60 & 50/10



HAY POINT THIRD EXPANSION PROJECT (HPX3)

The expansion of the Hay Point export coal facility, located two kilometres off the coast near Mackay, Queensland, included the construction of anchored steel piles, prestressed roadway decks and reinforced concrete floor slabs. The coal export port has now increased its coal output capacity from 44 to 55 million tonnes per annum. However, the development of the project wasn't without its challenges.

PROJECT COMPLETION: 2015

CLIENT/END USER: MDGS-JV/BHP BILLITON

APPLICATION

WHERE WE APPLIED BLUEY PRODUCTS AND SERVICES

The project required some 8000 tonnes of packaged grout. BluCem HS200 and BluCem HS200AG were used for pile anchor grouting and BluCem GP60 and BluSeal ApFoam was used for roadway deck gap grouting prior to post tensioning. BluCem 50/10 concrete was supplied for offshore transfer tower suspended slabs. BluRez Epoxy 480 filled roadway deck unit lifting and hold down recesses.

WHY WE USED BLUCEM HSI00, GP60 & 50/10

BluCem HS200 met the strict specification requirements for the pile anchor grout while BluCem GP60 was preferred over site batched grout where stability, early strength and fluidity were important for construction cycle times. BluCem 50/10 concrete was developed as a packaged product, in partnership with Cement Australia, to meet durability, strength and shrinkage specifications while providing a solution for batching remotely offshore in a modular batch plant designed and built for Bluey by Mixers Australia.

FEATURES

- Bluey were contracted to have full time representation in Mackay and on site to manage logistics of the supply chain from plant to warehouse and to site through a critical 9 month period of construction. The contractor appreciated this service where supply and technical issues could be resolved expediently.

BENEFITS

- Our partnership with many of our suppliers, including Mixers Australia and Cement Australia, allowed us to provide complete solutions for supply, mixing and application of products including training of the contractor's crews in product methodology and testing.

SUMMARY

Over 150 anchor piles were successfully grouted in place with BluCem HS200 and BluCem HS200AG grout. The final pours of BluCem 50/10 concrete and BluCem GP60 grout was completed in October 2014, at which point around 350 cubic metres of high specification concrete had been placed and nearly 2400 concrete roadway deck units were grouted and post tensioned, allowing mechanical and electrical fit out to proceed.

