



BluCem FSC - Fast Set Concrete

PORT BOTANY - SLAB REPLACEMENT

NSW Ports engaged Bluey Technologies, Ward Civil and NA Group for a pavement rehabilitation at a major intersection at Port Botany. This intersection is used by hundreds of trucks every day, moving goods from nearby ports and connecting them to Australia's road networks.

Project Completion: June 2020

Application

WHERE WE USED BLUCEM FSC

BluCem FSC was specified by the asset owner and Ward Civil as the fast set concrete of choice for the project. NA Group worked from Friday night to Sunday afternoon, placing 350m² of new roadway, ensuring traffic flow continued at each stage of the pour. From the time of placement, heavy vehicle traffic returned to the new section of road in less than 5 hours.

WHY WE USED BLUCEM FSC

BluCem FSC has been designed as a cementitious binder that can be mixed with coarse and fine aggregates to produce a rapid-set concrete. FSC is suitable for batching near to site and in volumetric mixers, for fast placement where high early strength and an early return to service is required. Its manufacture in Australia also ensures increased consistency and reliability compared to other rapid concrete solutions.

Features and Benefits

- Suitable for a range of mix designs and water ratios
- High early flexural and compressive strengths
- 100 year design life
- Negligible chloride content
- Engineered alkalinity
- Very low drying shrinkage

Summary

While there are a number of benefits to using BluCem FSC, the key benefit of the technology is the ability to speed up the construction process, allowing projects to be delivered ahead of schedule. BluCem fast set concrete technology has been trusted by major road authorities across Australia for more than three years.





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