

BluCem HS200

PAYA LEBAR QUARTER, SINGAPORE



Paya Lebar Quarter is a landmark mix-use development that blends over 200 retail spaces and 3 towers of commercial buildings and 429 units premier residences. The project involves the construction of post-tensioned slabs and Bluey was engaged to supply highly fluid grouts to ensure fully encapsulation of the tendons.

PROJECT COMPLETION: DECEMBER 2017-2018

DEVELOPER: LANDLEASE RETAIL PTE LTD

APPLICATION

WHERE WE USED BLUCEM HS200

The project requires some 300 tons of BluCem HS200. The post tensioning grout was used to fully encapsulate the tendons in the post-tensioned slabs.

WHY WE USED BLUCEM HS200

BluCem HS200 showed full compliance with the EN447 specification and allowed for easy installation. It is cohesive and ultra flowable to facilitate pumping and insure full encapsulation of the tendons and the wire strands. This provides corrosion protection to the post-tensioned tendons in the concrete structures. Pre-construction trials showed that BluCem HS200 achieved good flow rate at 14 seconds using EN cone and high strength of 50MPa at 24 hours and 100MPa at 28 days' cure.

FEATURES AND BENEFITS

- Complies with EN447 specification
- Ultra high flow
- Negligible bleed
- Rapid Strength gain
- Excellent stability
- Low permeability

SUMMARY

The customer benefited from the technology offered by BluCem HS200 where the post tensioning work was completed within expected construction timetables. Around 300tons of post tensioning grout was used. The rapid strength gain and ease of usage of the products delivered a positive outcome in the challenging working environment.





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