



BluCem HS200RM

UNDERSLAB VOID GROUTING

At a critical regional airfield in north west NSW, Civil Craft engaged Pan Civil and Bluey Technologies to fill all voids under an existing airplane wash bay. It's believed the soil had been removed from beneath the slab overtime, due to poor drainage. To fill the voids, 4m³ of BluCem HS200RM was pumped under the slabs.

Project Completion: November 2020

Application

WHERE WE USED BLUCEM HS200RM

To complete the works, 50mm holes were drilled through the slab every 1.5 metres, with the grout mixed off site and later delivered in a concrete agitator. The surrounding area was covered in geofabric to stop any excess grout entering the nearby drainage system. While the BluCem HS200RM was only required to fill the voids, its extremely high fluidity meant that it also penetrated the subgrade soil, providing strength at an even deeper level.



WHY WE USED BLUCEM HS200RM

BluCem HS200RM was selected due to its fluidity and high early strength. The 120-minute pump life allowed the grout to run underneath the entire runway. Once the initial set began, the high early strength allowed the wash bay to be returned to service within 24 hours.

Another reason BluCem HS200RM was recommended by Bluey engineers is because the grout also has zero bleed properties. This ensured there would be no gaps between the grout and the slab once pumped into place and no chance of additional voids in the future.



Features and Benefits

- Ultra high flow
- Zero Bleed
- Rapid strength gain
- Workable for several hours
- Suitable for 100-year design life applications

Summary

The client benefited from the technology offered by BluCem HS200RM and support offered by the Bluey team. The contractor also noted that the HS200RM dissolvable bags (which were added to the concrete agitator prior to delivery), allowed for a simple, controlled application on site.





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