



CASE STUDY

Advanced waterproofing protects iconic Adelaide Convention Centre

SUMMARY

Client

SA Department for Infrastructure and Transport (DPTI)

Location

Adelaide, South Australia

Challenge

A large, high-profile public space required a lightweight, durable, and fast-curing waterproofing system to be installed under a tight construction schedule.

Sector

Remediation

Solution

External waterproofing, trafficable.

Outcome

A fully compliant and approved system was installed, allowing for forklift traffic just one hour after application and ensuring long-term asset protection.

Products

VELOSIT® SC 241, Matacryl® MANUAL

Hychem delivered a sophisticated, rapid-cure waterproofing and surfacing solution for the iconic Adelaide Convention Centre, a project requiring high levels of performance and compliance.

Working with Lendlease and the SA Department of Transport & Infrastructure, Hychem's Matacryl® and VELOSIT® systems provided a fully trafficable, lightweight, and durable solution across a vast 5,750m² area.

The challenge

The redevelopment of the Adelaide Convention Centre, a landmark project for South Australia, required a world-class waterproofing solution for a 5,750m² podium deck. The engineering specifications, overseen by Aurecon and Lendlease, demanded a system that was not only lightweight and highly durable but also offered exceptionally fast curing times to meet the demanding construction schedule and allow for immediate follow-on trades.



The engineered solution

A multi-layered Hychem system was engineered to meet every project requirement. The foundation was the Matacryn® RB System, a rapid-curing waterproofing membrane renowned for its flexibility and durability. This was complemented by the VELOSIT® SC 241, a high-performance, lightweight screed used for fall correction. The rapid-cure profile of the Matacryn® products was a critical advantage, enabling forklift traffic to proceed just one hour after the final membrane application, dramatically accelerating the project timeline.

The outcome

The project successfully delivered a robust, seamless, and fully compliant waterproofing solution for one of Adelaide's most important public buildings. The system's rapid-curing capability was instrumental in meeting the project's tight deadlines, demonstrating Hychem's ability to provide advanced material technologies that deliver critical time and cost savings on large-scale, high-profile developments.



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