Restoring critical water treatment infrastructure for long-term performance

Water treatment holding tank | Laverton, Victoria



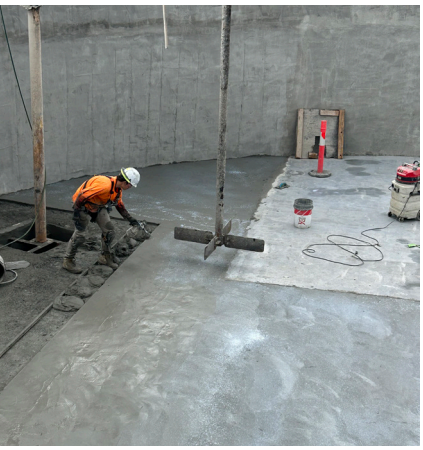
CONTRACTOR
Australian Waterproofing Pty Ltd

SECTOR
Chemical Manufacturing / Water Treatment

DATE
2026

PRODUCTS
- Renderoc® G
- Concure A99





THE PROJECT

An effluent holding tank at a Victorian water treatment facility required major concrete remediation after years of chemical exposure caused significant deterioration to the internal concrete surfaces. Australian Waterproofing Pty Ltd restored approximately 550 square metres of the tank's internal perimeter walls and floor, applying Renderoc® G at a uniform 30mm thickness.

Working alongside a consulting engineer, Fosroc ANZ developed a fit-for-purpose specification after assessing the tank's operating conditions and chemical exposure. During substrate preparation, the concrete was found to be significantly more deteriorated than anticipated, resulting in a much coarser concrete surface profile and requiring almost 1,800 bags of Renderoc® G to complete the repair.

THE SOLUTION

Renderoc® G was specified because of its proven performance in concrete structures exposed to corrosive service conditions. Common applications include potable water structures, sewer assets, acid bunds and food processing facilities. The product also complies with AS 4020:2018 for use in contact with drinking water.

Applied using the wet spray process, Renderoc® G delivered:

- Excellent adhesion to prepared concrete
- Superior compaction
- Rapid placement of large material volumes
- High-build application without sagging
- Excellent mechanical bond to the prepared substrate

Maintaining the specified 30mm build required careful planning, with the repair completed using a checkerboard application sequence. The application process was further refined by adjusting the mix water within Technical Data Sheet parameters to improve consistency and workability.

Following installation, Concure® A99 was applied as a curing membrane to retain moisture, reduce shrinkage, prevent rapid drying and maximise long-term adhesion of the repair mortar to the existing concrete.

THE BENEFITS

The completed concrete rehabilitation has delivered a long-term repair solution capable of supporting the facility's ongoing water treatment operations while protecting the structure from continued chemical exposure. Key benefits included:

- Chemical-resistant repair system designed for chemically exposed concrete structures
- AS 4020:2018 compliance for use in contact with drinking water
- Excellent adhesion and mechanical bond to heavily prepared concrete
- Efficient wet spray application for large-volume repairs
- Improved curing performance and reduced shrinkage using Concure A99
- Close technical support throughout specification, application and project delivery

"The support from Fosroc's R&D department, the engineers and the field team gave both us and the client confidence throughout the project," said Australian Waterproofing Pty Ltd Director, Gary Moody.

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