

Polyurea WHE110 protects landmark wildlife bridge crossing

Cawleys Bridge | NSW, Australia

ASSET OWNER

Transport for NSW

CONTRACTOR

NextGen Building and Design

SECTOR

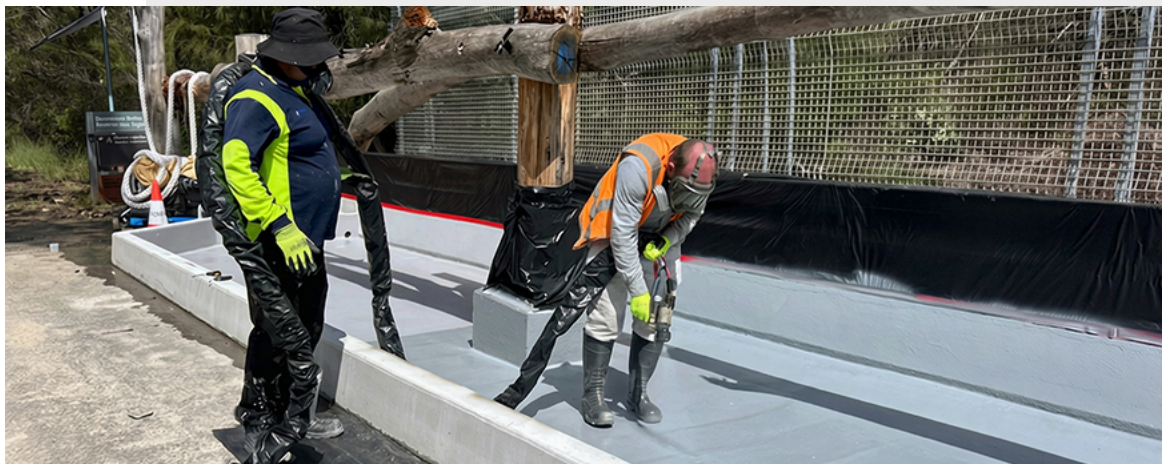
Transport Infrastructure

PROJECT DATE

March 2026

PRODUCTS

- Polyurea WHE110
- Nitoproof™ 510
- Proofex® Sheetdrain 81



A rarely used 70-metre bridge over a busy motorway south of Sydney has been given a new purpose, with part of the existing structure transformed into a wildlife crossing.

THE PROJECT

Cawleys Bridge, which runs over the Princes Motorway at Waterfall, south of Sydney, has been repurposed to create a wildlife crossing connecting Heathcote National Park with Garawarra State Conservation Area and the Royal National Park. Designed with soil, vegetation, logs and elevated structures to provide safe passage for native wildlife, the new living landscape required a robust waterproofing solution to protect the concrete bridge structure beneath.

THE SOLUTION

Fosroc Polyurea WHE110, a spray-applied waterproofing membrane, was selected to waterproof the area beneath the soil, vegetation, logs and other habitat features that were installed on Cawleys Bridge.

In consultation with the Fosroc ANZ team and product Technical Data Sheets, the experienced applicators from NextGen Building and Design took the following approach to prepare and waterproof the bridge deck:

Step 1: The existing concrete surface was ground and prepared to provide a suitable substrate for the waterproofing system.

Step 2: Nitoproof 510, a two-part epoxy primer, was applied to the prepared substrate as a primer coat.

Step 3: Polyurea WHE110 was spray applied across the garden-bed area, including around irregular details and upstands.

Step 4: Proofex Sheetdrain 81, a dimpled drainage and protection sheet, was installed over the membrane to protect it from the soil, rocks and other materials above.

Step 5: A layer of soil, vegetation and habitat features was then installed above the protected waterproofing system.

THE BENEFITS

Polyurea WHE110 delivered a fast, durable and practical waterproofing solution for the unique requirements of the Cawleys Bridge wildlife crossing. Key benefits include:

- Rapid curing in approximately 15–20 seconds
- Fast spray application kept the project on track, with the 200m² area completed in a single day
- Easy application around irregular surfaces, details and upstands
- Protection of concrete substrate beneath soil, vegetation and habitat features
- Proofex Sheetdrain 81 providing an additional protective drainage layer over the membrane
- A high-quality finish and efficient application using specialist spray equipment
- Technical support from Fosroc ANZ throughout the project

The completed system provides durable protection beneath the bridge's new living landscape, helping an existing piece of infrastructure take on an innovative new role as a wildlife corridor.



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