

Megapoxy[®]

A bridge to tomorrow: restoring lasting structural integrity for piers

Project owner: Transport for NSW

Contractor: Freyssinet Australia

Location: Killara New South Wales



PROJECT SNAPSHOT

Repair and strengthen cracked piers supporting the Regentville bridge over the Nepean River, originally built on 1971.

Client needs + challenges

- Fast, simple solution to get the bridge back in service quickly.
- Easy-to-handle products for a tricky worksite, including scaffolding on pontoons moored into position.
- Permanent, high-strength repair to withstand elements and traffic loads.
- Versatility for vertical, inclined or overhead work.
- Deep, comprehensive crack filling and sealing.



Crack Injection



Balloons bonded with Megapoxy PM



PRODUCTS USED

- [Megapoxy HX >](#)
- [Megapoxy PM Grey >](#)

Solutions, service + simplicity

Freyssinet Australia specified the Megapoxy crack repair system with confidence – and our team provided support and advice throughout this important project.

- Injection balloons were glued to the piers (along crack lines) using Megapoxy PM, an epoxy paste adhesive with outstanding strength and robust adhesion.
- The balloons are designed to facilitate precise placement over cracks – and for the user to easily see and monitor the flow of injecting resin flowing through the balloons and into cracks.
- Using an injection gun, the balloons were injected with Megapoxy HX – an extra-low viscosity, solvent-free, high-flow liquid resin that penetrates deep into cracks.
- A specified time after injection, the team simply ground off the injection balloons and any additional product, leaving a smooth surface.

Standout benefits

- Clear, step-by-step process with visual aids (balloons) and leakage-free connections.
- An economical and permanent repair system.
- Deep structural repair and strengthening.
- Easy-clean, easy-to-use tools for every step.
- Elasticity for temperature variations & similar movement.



Over water crack repair

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