



constructive solutions

GUIDE TO CONCRETE DEFECTS

- POTABLE WATER APPLICATIONS

Fosroc have a range of concrete repair materials that are suitable for drinking water applications. Use this guide to help identify concrete defects onsite and the recommended Fosroc repair solution.

All concrete repair solutions recommended in this guide are independently tested and comply to AS 4020:2018. Test certificates can be downloaded from fosroc.com.au and fosroc.co.nz

This is a guide only, always refer to the product TDS before making your final selection and speak to your Fosroc representative.



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PATCH REPAIR

Problem

Isolated repairs



Solution

Renderoc HB40, HB70 or HB70 Plus
High build repair mortar



- Used for localised patching of reinforced concrete, >25 MPa.
- Use for vertical and overhead applications.
- Renderoc HB40 & HB70 are suitable for use with embedded galvanic anodes.
- Meets the requirements of EN1504-3 Class R3 or R4.
- Apply by trowel or wet spray.
- Use with Nitobond EP primer for submerged conditions.

Large volume repairs
– form & pour



Renderoc LA55
High build, micro-concrete repair mortar



- Use for thick section concrete repairs, 30 to 60 MPa.
- Can be used for all orientations.
- Suitable for use with embedded galvanic anodes.
- Meets the requirements of EN1504-3 Class R4.
- Apply by form and pour method.
- No primer required but concrete must be saturated surface dry.

Large volume repairs
– hand placed



Renderoc G
Geopolymer, acid resistant repair mortar



- Use for long term protection of concrete in potable water structures, up to 35MPa.
- Can be used for all orientations.
- Apply by trowel, wet or dry spray.
- No primer required but concrete must be saturated surface dry.

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CRACK REPAIR

Problem

Cracks in beams, slabs, pillars



Solution

Nitofill LV + Nitomortar AP

Low viscosity epoxy injection system



- Use to consolidate a structure or exclude water and air from contact with the reinforcement steel in structural and non-structural concrete including beams, slabs and pillars.
- Ideal for small scale crack repairs on site.
- Suitable for in-situ or precast concrete elements.
- Supplied in a dual cartridge, packers and couplers are also available.
- Suitable for cracks down to 0.2 mm at the substrate surface and internal cracks tapering down to 0.1 mm.
- Not suitable for moving cracks.

Must be applied by a trained applicator.

Water leaks



Nitofill PU150

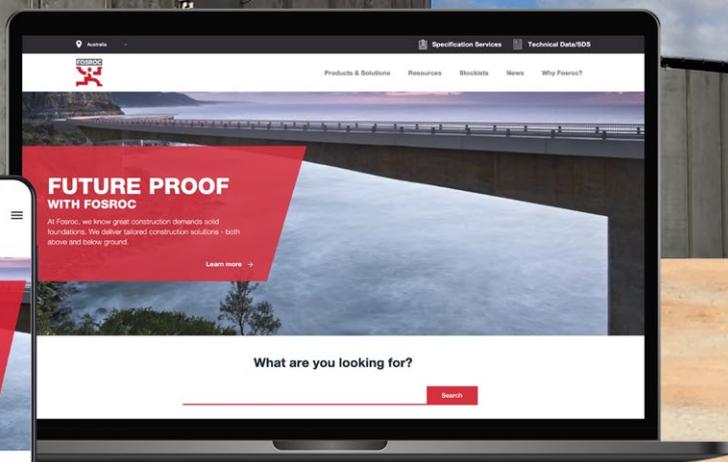
Hydrophilic polyurethane injection resin



- Use to seal leaking cracks, voids or fractures in inaccessible areas in concrete structures.
- It is a single component system that reacts with water to form foam, which expands to fill the void and stop the water flow.
- Rapidly forms a highly resilient, flexible seal that allows movement of the crack, fracture or joint.
- Reacts with sea water or mineral water.

Must be applied by a trained applicator.

For more product information, including TDSs, product brochures and product selection tools visit fosroc.com.au and fosroc.co.nz.





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Fosroc is a world leader in the delivery of virtually any type of construction project, combining high quality products, expert technical support, customer service and innovation.

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