

**YOUR WET AREA SOLUTION**

**MFWIC**

**WATERPROOFING**

RESIN INJECTION POLYURETHANE / EPOXY  
(FOR SURFACE AND STRUCTURAL CRACKS)

REMEDIAL WATERPROOFING REPAIRS

NON SLIP EPOXY & POLYURETHANE FLOORS

WATERPROOF MEMBRANES & APPLICATION

**CALL TODAY FOR AN OBLIGATION FREE QUOTE**

**P: 0437 271 662**

Mfwic Waterproofing Pty Ltd offer a (HPPI) High Pressure Polyurethane Injection system.  
*abn 50608163828 acn 608163828 The Attributes of Polyurethane Resin.*

High Pressure Polyurethane Injection is an extremely versatile waterproofing method that can be used to deal with any leak in a poured concrete structure, under most conditions. This versatility is an attribute to the characteristics of quality polyurethane resins used for structural and water prevention solutions :  
Once activated polyurethane typically expands to 2.5 times it's volume; this is very desirable when filling large cavities or when the size of a cavity is unknown. The expansive force of polyurethane is significant; consequently, it will fill any and all gaps that it encounters, this is particularly useful when dealing with very porous concrete or when dealing with honeycombing. It will also expand wherever it can; following the path of least resistance, it will fill any and all voids encountered;

Our polyurethane resins are non-toxic. This makes them suitable for use with potable water systems such as cisterns; Polyurethane sets rapidly in the presence of hydrogen. Since hydrogen molecules are a component of water (H<sub>2</sub>O), the presence of water during an injection actually increases the reactivity of the polyurethane. This makes polyurethane the ideal product to use when active basement leaks and/or significant hydrostatic pressure, are encountered;

The polyurethane resins that we use will not freeze and always remain flexible (not an attribute of all polyurethanes); this is desirable when the concrete surrounding it expands and contracts due to thermal cycling; Polyurethane sets very quickly. This is essential in stopping leaks where significant hydrostatic pressure is present; At Mfwic Waterproofing Pty Ltd we use polyurethane resins of varying viscosities; this gives us more flexibility in dealing with cracks the size off a hairline to a large void.

**1: Several technical factors need to be taken into account to determine whether a leak should be injected using epoxy or polyurethane; for example, the effects of tension and compression at the crack location must be factored into the decision on how best to deal with your leak repair. There is a lot of science behind injection repairs; We will determine whether polyurethane injection is optimal for your circumstances.**

**2: Not many waterproofing companies offer polyurethane injection repairs. Why? Because it takes training, skill, knowledge, high quality polyurethane formulations, professional injection equipment and determination to perform a successful polyurethane injection; otherwise the injection will likely fail. As significant training and a commitment to work excellence is crucial, many companies shy away from polyurethane injections because they cannot reliably produce successful results. The demanding nature of polyurethane injection is so significant that other competitors call upon us to perform (HPPI) repairs.**

Mfwic Waterproofing P/L offer there HPPI system as a remedial alternative to otherwise costly and impractical solutions. Please feel free to contact us for any information or a quotation regarding High Pressure Polyurethane Injection. Thank you for considering Mfwic Waterproofing P/L.

**Mfwic Waterproofing Pty Ltd**

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