# Case History – Gladstone City Council Tank Repair

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| *Month/Year* | Oct 01 |
| *Products* | **NMP 1720 Heavy-duty protective coating with Kevlar** |
| *The Problem* | Gladstone City Council has had a continuing problem with leaking wall/floor seals in one of their larger concrete tanks supplying the Power Station. The original neoprene seals have continually moved out from under the wall due to hydrostatic pressure. Various repairs have been carried out over the years with limited success; the latest attempt used a 'hard-finish' epoxy, which failed after a short period due to insufficient thickness and consequent cracking. |
| *The Solution* | Divers carried out an inspection on the defective area, which was located adjacent to the substantial external leakage. The cracked epoxy was cleaned by wire brushing, and a strip of 'modelling clay' was placed over the leaking section to stem the water flow. A thicker material than NMP epoxy (the 'modelling clay') is initially required to cope with the head pressure generated within the tank, which remained at full capacity throughout the repair. NMP 1720 epoxy was then applied over the affected area, and left to cure for 30 minutes. The diver re-entered the tank and carried out the final finishing of the repair prior to the epoxy hardening beyond a 'workable' viscosity. |
| *Notes/Comments* | The external leakage dropped off immediately and has continued to remain dry for the last two years. In the opinion of the diving company, "NMP epoxy has proved itself to be effective in extreme conditions, where other products cannot compete." |