

CASE FILE

Keeping the wheel turning with Belzona® Magma Quartz!

The Customer

Water Treatment Plant, Brisbane, Queensland, AUSTRALIA

The Application

Damaged areas of the concrete rim of the clarifier.



The clarifier
to be repaired.



Two of the three areas of concrete that
were damaged when the wheel failed.



TX Conditioner applied by brush.



The Magma Quartz being applied.



The repaired areas of the clarifier.



The completed
repair.

The Outcome

The damaged area was only shallow, so it was important to utilise a suitable product. This is where Belzona® Magma Quartz was the superior choice as it will work in profiles as little as 6mm with a compressive strength of 914kgs/cm²... that's a whopping 13,000 psi!

The Problem

The polyurethane tyre peeled off the solid steel rim of the clarifier wheel and caused damage to three areas of the concrete. This clarifier operates 24 hours a day, seven days a week, therefore any maintenance works must be undertaken in a minimum of downtime.

The Products Used

Belzona® Magma Quartz
Belzona® TX Conditioner

The Substrate

Concrete.

The Application Method

The first step was to remove the pieces of broken concrete and then the area was "faced" to remove any contaminants. The areas to be repaired were also brushed down to remove any dust. The next step was to apply Belzona® TX Conditioner to help seal the concrete and enhance the Magma Quartz adhesion. The TX Conditioner was allowed to tack off while the Belzona® Magma Quartz product was prepared. The final step was to smooth out the repair areas.

The clarifier was put back into service the next morning at 6.30am. The repair with Belzona® Magma Quartz proved to be a quick, cost effective and permanent alternative to a traditional repair. The water treatment plant have a spare kit in stock so that any time there is a problem with the surface, the maintenance crew can perform an instant repair.

The clarifier
wheel back in
service.

