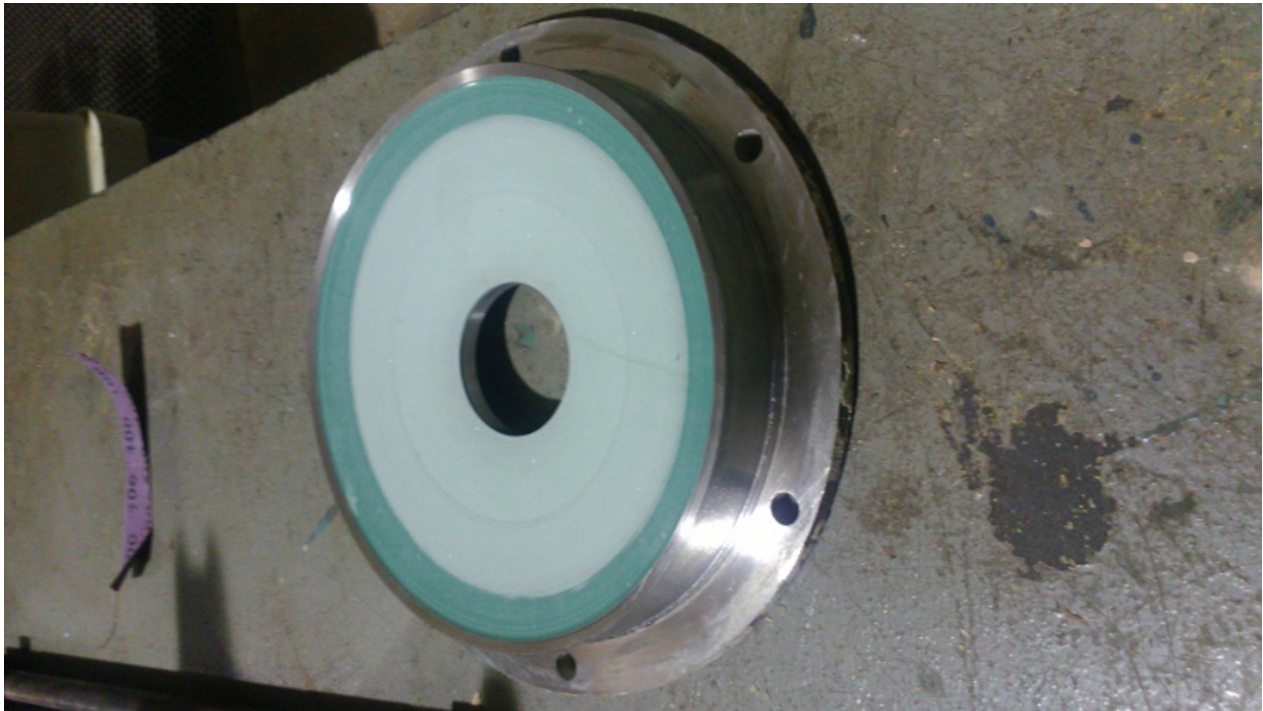


# Ceramic Brushable Case Study



## Power Station Repair Damaged Pump Lid

A pump lid from a power station treatment plant which would have cost \$4000 to replace undergoes repair after being badly damaged by a falling impeller

### Defect

The pump lid was 500mm in diameter and made from Alloy 20. It was located in a mud pool at the power station in Puerto Rico. Extensive damage had been caused to the surface when an impeller came out of place and fell directly onto the lid, leaving several deep gouges and numerous scratches.

A replacement lid would have cost \$4000 and required shipping to Puerto Rico, leaving the pump out of action for a significant amount of time..

### Solution

The lid was removed from the pump and **Ceramic Brushable Green Epoxy Coating** used to carry out a repair. The first few coatings were applied to fill in the gouges and scratches, most of which were found in the centre of the lid.

This was followed by additional coatings being added across the entire 500mm area, creating a new reinforced surface over the original Alloy 20. Once the final coating had begun to harden, the lid was turned on a lathe to finish it.

### Result

After a full cure was achieved, the lid was fitted back in place and the mud pool could resume full operations. The power station were pleased with the application as it prevented a costly replacement and kept downtime at the site to a minimum.

