

Bronze Impeller Refurbishment



PROBLEM

A power plant on a lake had a bronze impeller that suffered extensive corrosion and erosion of the base metal.

The company was looking for a cost-effective alternative to buying new equipment and minimize downtime in the plant.

SUBSTRATE

Bronze

PRODUCTS USED

[RESIMAC 204 HD](#)

[RESIMETAL 202 Ceramic Repair Fluid](#) (2 colors)

SOLUTION

The surface of the impeller was blast cleaned to a minimum of NACE 2.

One coat of [RES 204 HD](#) a reinforced repair – was used to give excellent abrasion resistance. [RES 204 HD](#) is simple and safe to use and designed for areas subjected to cavitation and impingement damage.

Two coats of [RESIMETAL 202 Ceramic Repair Fluid](#) were then applied to give extra protection and a smooth finish to the impeller.

This system offers excellent abrasion and erosion properties, even under the most aggressive operating conditions.

The customer was very pleased to have a quick, efficient solution that lasted 5 years until the plant was moth balled.