IMPELLED TO ACTION

ID: 6070

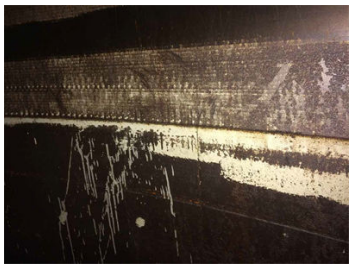
Industry: *Power*
Customer Location: *Lilla Edet*
Application: *FBC-Fans, Blowers and Compressors*
Application Date: *September 2014*

Substrate: *Carbon steel*
Products: *Belzona 1311 (Ceramic R-Metal), Belzona 1341 (Supermetalglide)*

Problem

Cavitation had caused damage to a number of locations on the impeller blade of a Swedish hydropower plant. The damage reduced plant efficiency, and if untreated could ultimately have led to total mechanical failure.

Damage to the impeller



Scratch damage and wearing

Belzona 1311 Ceramic R-Metal topped with Belzona 1341

Second and final coat of Belzona 1341

Application Situation

Impeller blade suffering from serious cavitation damage in approximately 15 places.

Application Method

The affected area was brush-blasted to provide a suitable substrate surface. One layer of Belzona 1311 was then applied and left to cure, followed by two successive layers of Belzona 1341.

Belzona Facts

The repair was a rapid one, with the preparation and three layers applied over the course of three days. Thanks to the rapid cure times of Belzona systems, client downtime was minimised. The highly durable and cavitation-resistant properties of Belzona® 1341 mean that the impeller is now protected for the foreseeable future.