

IMPELLED TO ACTION

ID: 6070



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.

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.

INDUSTRY

Power

LOCATION

Lilla Edet

APPLICATION DATE

September 2014

PRODUCTS

Belzona 1311 (Ceramic R-Metal)
Belzona 1341 (Supermetalgilde)

SUBSTRATE

Carbon steel

PHOTOS

1. Damage to the impeller
2. Scratch damage and wearing
3. Belzona 1311 Ceramic R-Metal topped with Belzona 1341
4. Second and final coat of Belzona 1341

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under an ISO 9001 Registered
Quality Management System.

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