

CASE STUDY: 7-STAGE COLUMN PUMP COMPONENTS PUMPING SUPER-SATURATED BRINE – COMPLETE REHABILITATION

REHABILITATION & RECLAMATION OF LOST STEEL – THAT'S TRUE RECYCLING!

CLIENT

A large Soda Ash & Salt Mine, Northern Botswana.

APPLICATION DATE

November – December 2019

DEFINING THE PROBLEM

Many years of pumping super-saturated brine water from an ancient Sub-terranean Lake under the Mkalagadi Salt Pans had all but completely destroyed the pump components & were earmarked for scrapping & disposal.

Corrocoat SA took on the challenge of rehabilitating the components back to OEM Spec, remembering the adage of: **Reduce – Re-use – Recycle.**

DESIGN REQUIREMENTS

The design brief was simple. Bring the components back to OEM Specification in order that the components can be pressed Back into service.

SCOPE OF WORK

Commencing with breaking off hardened salt from the components, caked on over years of immersion in brine, Corrocoat then commenced with decontamination washing and blast cleaning iterations until the levels of retained metallic salts were reduced to acceptable levels. This was achieved using **Chlor*Rid** decontamination solution. Once sufficiently cleaned, Corrocoat commenced reclamation & rehabilitation using the POLYGLASS range of liquid Polymers and woven roving glass-fibre laminates.

CORROCOAT CREDENTIALS

Corrocoat offers a comprehensive range of materials and corrosion engineering solutions to negate the effects of corrosion and abrasion damage to pump components.

Corrocoat structural linings reinforced with glassflake are used together with GRP & FRP composite laminates to add back enough structural strength for the refurbished component to have a longer corrosion life than that of a new component.

For over 40 years Corrocoat has served industry in more than 37 countries globally with innovative Corrosioneering solutions. We can save your components too, contact us today!

PHOTOGRAPHS

Top: Column Drive Base completely corroded through
Middle: Following Chlor*Rid washing & Blast Cleaning
Bottom: Drive base completely rebuilt & ready for service.



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