

Challenge

Issue

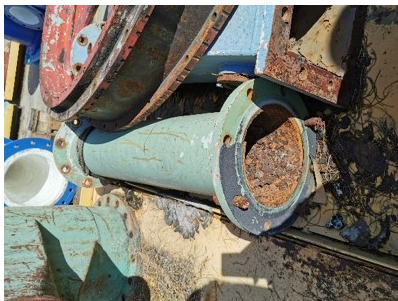
The internal surface of a Cyclone (Cleaner cone) pipe experienced extreme wear due to abrasive medium flow.

Root Cause

24 hours operation of abrasive and slurry medium with contains scrap pulp, and metal stapler bullets caused the existing competitor coating to fail within 3 months.

Goal

To achieve pipe life to > 3 months service



Before Coating

Solution

We have applied **Chesterton ARC BX1 and SD4i**
ARC BX1

Trowel-grade coating for coarse-particle, severe-sliding wear designed to:

- Protect areas exposed to sliding abrasion
- Resurface damaged metal in lieu of more traditional weld overlays

ARC SD4i

Sprayable, ceramic-reinforced coating designed to:

- Protect against corrosion and erosion
- Provide extended protection in aggressive chemical immersion services

Preparation

Surface preparation with grit blasted to SA 2.5 and 75-125 mil angular profile.

Application

ARC IBX1 used to rebuild the thickness and to fill in the uneven surface.
SD4i used as finishing/top coat.



Chesterton ARC BX1

Results

Client Reported

Customer had a shutdown inspection after 6 months in service, the coating appearance is almost like new. Will inspect again for the next shutdown, however, it is expected that the coating will last more than 12 months. Customer is very satisfied with Chesterton Coating Performance and will send more cyclone cones for repair and to apply the Chesterton coating.



New Coating Chesterton ARC IBX1 + SD4i



After 6 months in use, coating still in very good condition.

About

Chesterton® is a world leader in helping process industry companies and manufacturers improve the reliability and efficiency of their rotating, stationary, and fluid power equipment platforms. We are known across a wide range of industries for our award-winning pump and valve sealing solutions, applications expertise, equipment maintenance and wear-prevention products, and knowledgeable hands-on local service.

Chesterton® products are available in Asia Pacific through our official Chesterton Distributors Partners' Channel

Mentioned in the case study:

SJP Sealing Technology (S) Pte Ltd

Exclusive Distributor of Chesterton products
Locations: Singapore and Malaysia

Chesterton ARC Industrial Coating

ARC industrial coatings are engineered to protect metal and concrete surfaces from the damaging effects of abrasion, erosion, and chemical attack.

arcindustrialcoatings.chesterton.com

Training

Continual development of personnel is one way of attracting and retaining a capable workforce, and it is an area which receives a great deal of attention from Chesterton.

We regard training as a value adding product which delivers tangible benefits, both short and long term. Appropriate training ensures the correct use of equipment which will deliver longer life for the lowest overall total cost of ownership, and a rapid return on your training investment.

Contact us to know about our latest training schedule.

Channel Partners

In addition to its direct sales and service efforts, Chesterton has a large, established network of more than 500 authorized, independent, company-owned distributors in over 113 countries. These distributors have extensive experience in the industries we serve and provide exceptional local service and applications consulting using only genuine Chesterton products and parts. All Chesterton distributors receive extensive and on-going training in:

- Pump and mechanical sealing systems
- Valve stem and flange sealing
- Fluid power sealing and efficiency
- Industrial coating selection and surface preparation
- Industrial lubrication for plant maintenance and reliability

Chesterton distributors are backed by our own field teams and sales/support staffs as well as engineering applications and engineering teams to ensure the best customer experience possible.