

OEM Split Case Pump

Challenge

Issue

Original coating limited to shop application only, making field repairs difficult. Lead times required 3-6 weeks for repairs.

Goals

- Provide potable-water-certified coating that can be field applied
- Reduce lead times associated with shipping pumps off site for repair

Root Cause

The previous fusion-bonded epoxy coating required preheating to 450°F (220°C).

Solution

Preparation

 Grit blast to Sa 2.5 with 3 mil (75 μm) angular profile

Application

- 1. Apply two coats ARC S2 @ 20 mil (500 µm) to pump internals
- 2. Apply one coat ARC S1 @ 10 mil (250 µm) to outside surface

*ARC S2 has WRAS potable cold water approval for UK

Results

Client Reported

- ARC S2 provided not only better erosion protection but also pump efficiency increased a few points compared to FBE
- Repairs are easy to perform on-site or at nearby shop
- Over 200 pumps coated in 4 years with optimum results



Pumps being delivered for coating



Pumps blasted and awaiting coating



Coated pumps with ARC S2 inside and ARC S1 outside with UV resistant top coat

Technical data reflects results of laboratory tests and is intended to indicate general characteristics only.

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