

CASE STUDY : CORROGLASS 600 FOR RISER PIPES

SEAWATER PUMP RISER PIPES MAINTAINED AFTER 21 YEARS.

CLIENT

Oil & Gas Industry, UK.

APPLICATION DATE

First application – 1983
Maintenance review – 2004

SCOPE OF WORK

Maintenance work to clean, inspect, touch up minor mechanical damage externally, and recoat flange areas.

PRODUCTS

Polyglass Standard for original coating in 1983.
Corroglass 600 Series for repair work in 2004.

SUBSTRATE

Steel

COATING SYSTEM

- Flash blast the existing coating. Grit blast damaged flange areas to ISO 8501-1, cleanliness standard Sa 2½ with minimum surface profile of 50µm.
- Apply Corroglass 600 Series to a min.dft of 1.5mm.
- Thickness check and spark test to 19Kv Hv-AC.

CORROCOAT CREDENTIALS

These seawater pump riser pipes first came to Corrocoat 21 years ago, and were protected internally and externally with the original Polyglass Standard product.

During the service life, which comprised of external exposure to seawater (immersed, splash zone and atmospheric), and internally, seawater with a low hydrochlorite dosing (≈4%), the coating has not shown any tendency to undercut, and only minor mechanical damage was needed to be repaired.

The sustained performance of Polyglass Standard under adverse operating conditions demonstrates the products' suitability for use in diverse applications throughout industry.

PHOTOGRAPHS :

Top: The pipes as returned after 21 years service.
Middle: Flange area illustrating no under-cutting.
Bottom: Pipes in coating – almost complete.



CORROCOAT