

CASE STUDY

ANOCHROME GROUP'S GALVAPLEX CORROSION PROTECTION SYSTEM FOR THREADED FASTENERS

Background

Galvaplex is a corrosion protection system for threaded fasteners consisting of a zinc layer (applied by hot-dip centrifuge or mechanical galvanising) covered by a PTFE top-coat. It is produced by the Anochrome Group of Wolverhampton.

The Galvaplex system is designed such that the zinc will provide active corrosion protection of the component. Sacrificial protection by the zinc is slowed down by the presence of the organic coating, prolonging the life of the zinc coating. A complete barrier coating would prevent any sacrificial protection taking place. The organic coating is therefore not holiday-free.



Scope of assessment

To assess the performance of Galvaplex against WIS 4-52-03 (Water Industry Specification for Anti-Corrosion Coatings on Threaded Fasteners: Issue 1).

Programme

1. A factory audit was undertaken of production facilities, quality control, manufacture and in-house testing facilities.
2. A technical audit of type testing was carried out. Selected tests were witnessed.
3. All products are required to meet BS 6920. Testing was carried out at an approved test house.

Results

The tests showed that the Galvaplex coating (black, sky blue, meer green and royal blue) meets the requirements of WIS 4-52-03: Issue 1, with the exception of holiday test. All four colours meet the requirements of BS 6920.

Certificate PT/126/0101 was awarded in January 2001 for Galvaplex (Black, sky blue, meer green and royal blue) corrosion protection system for threaded fasteners.