

PT/264/0407 – AS (April 2007) Assessment of ‘Sheraplex WIS’ coating for threaded fasteners - schedule



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1. Scope

To assess the ‘Sheraplex WIS’ anti-corrosion coating for threaded fasteners produced by Bodycote Metallurgical Coatings Ltd to WIS 4-52-03.

‘Sheraplex WIS’ is a two-part system comprising a sheradised surface (sacrificial corrosion protection) and a polymeric barrier layer.

The polymeric material can be Delta-Seal blue, silver, black, or light grey.

2. Assessment schedule

2.1 To assess the performance of the ‘Sheraplex WIS’ against WIS 4-52-03.

2.2 To audit the quality control procedures at the Wolverhampton plant.

3. Review of performance tests

3.1 The following performance tests are required by WIS 4-52-03:

- Coating thickness and thickness of each layer (to value declared by manufacturer)
- Effect on water quality (BS 6920). The coating needs to comply with BS 6920 in order to meet the requirements of Regulation 31 of the Water Supply (Water Quality) Regulations 2000
- Freedom from holidays/pinholes
- Adhesion (V-cut test, Cross-hatch test)
- Cure

- Long term protection of component (salt spray)
- Resistance to damage (impact)
- Ability to hold torque load

4. Review of procedures

In addition to the performance of the anti-corrosion coating, the following items are checked.

Quality control, as it applies to:

- incoming materials;
- control of production;
- outgoing products (quality control testing)

5. Reference documents

1. WIS 4-52-03 Specification for anti-corrosion coatings on threaded fasteners. Issue 1: 1994 (as amended).