

1. SCOPE

This schedule specifies the requirements for the Sheraplex WIS coating system for anti-corrosion coating of sherardized threaded fasteners produced by Specialist Metallic Coatings Ltd in accordance with WIS 4-52-03.

2. PRODUCT DESCRIPTION

2.1 Introduction

Sheraplex WIS is a two-part coating system comprising a sherardized surface (sacrificial corrosion protection) and a polymeric barrier layer designed for use on fasteners to be used with fittings in contact with drinking water.

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

2.2 Relevant Standards

- WIS 4-52-03:1994⁽¹⁾
- BS 6920:2014⁽²⁾

2.3 Approval History

Initially awarded WRc Approved certification in 1996, the product approval was renewed in:

- 1996 PT/01/0696
- 2001 PT/150/0101
- 2007 PT/264/0407
- 2012 PT/330/0412.

3. REQUIREMENTS AND TESTING

3.1 Water Quality Requirement

The coating material is required to hold current WRAS Approval to demonstrate that it meets the requirements of Regulation 31 of the Water Supply (Water Quality) Regulations⁽³⁾

3.2 Type Testing

The coating shall comply with the following type testing requirements:

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

3.3 Quality Control Testing

The coating shall comply with the following batch testing requirements:

- Visual appearance. The coating shall be free from any defects that may be detrimental to the coating performance
- Coating thickness and thickness of each layer (to value declared by manufacturer)
- Freedom from holidays/pinholes
- Adhesion (V-cut test and Cross-hatch test)
- Cure (MEK rub)

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3.4 Manufacture

To ensure the quality and performance of the Sheraplex WIS coating, the coating process shall include appropriate systems for:

- Verification of component materials received are to specification
- Handling and storage of all component materials and finished fasteners
- Records of manufacture
- Inspection and maintenance of coating equipment

The application of the Sheraplex WIS coating and related quality control procedures shall comply with requirements to ensure the stated performance of the product is reliably achieved.

2. BS 6920-1:2014 Suitability of non-metallic materials and products for use in contact with water intended for human consumption with regard to their effect on the quality of the water. Specification
3. Regulation 31 of the Water Supply (Water Quality) Regulations 2016

4. APPROVAL

The Specialist Metallic Coatings Ltd Sheraplex WIS coating has been audited and has successfully met all of the requirements stated within this assessment schedule.

Signed:

A handwritten signature in black ink, appearing to read 'Grant Hoy', written over a white background.

5. REFERENCES

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