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## SURFACE PREPARATION FOR THE APPLICATION OF PROTECTIVE COATINGS ON GALVANISED STEEL

**SPECIFICATION: A3**

**ISSUE: 4**

**DATE: NOVEMBER 2022**

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### 1.0 SCOPE

The scope of this specification applies to operations required for the surface preparation of galvanised steel.

Refer Design Standard, DS 95 (Standard for the Selection, Preparation, Application, Inspection, and Testing of Protective Coatings on Water Corporation Assets) for additional information or clarification.

### 2.0 PURPOSE

The purpose of this specification is to prepare galvanised steel surfaces for the application of a protective coating.

### 3.0 DEFINITIONS

**ACA:** Australasian Corrosion Association.

**Contractor:** The service provider or its sub-contractor who will undertake the works.

**Corporation:** The Water Corporation and the Principal for the purposes of externally contracted asset delivery.

**ITP:** The detailed Inspection and Test Plan(s) for the Works.

**NACE:** National Association of Corrosion Engineers.

**Superintendent:** The Superintendent for the contract, as defined in the conditions of the contract, who is appointed by the Water Corporation to manage/oversee the work under the contract on behalf of the Water Corporation.

**Works:** The surface preparation, coating application and inspection to be undertaken by the contractor to which this coating specification applies.

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**4.0 COATING APPLICATOR/PERSONNEL QUALIFICATION**

- 4.1 Work shall only be carried out by competent personnel.
- 4.2 The work shall be undertaken by an approved Water Corporation Panel – Protective Coating and Concrete Repair Services member, unless approved otherwise by the Team Leader – Asset Durability.
- 4.3 The coatings contractor/subcontractor shall nominate a certified coating inspector with NACE or ACA qualification. SSPC and equivalent qualification will require written approval by the Principal. The coating inspector shall conduct the following:
- Prepare quality assurance documentation to meet the specified standards given herein and the required acceptance criteria.
  - Perform inspections and maintain appropriate records for work performed.
  - Testing, monitoring and verification of surface preparation and coating application.

**5.0 ATMOSPHERIC CONDITIONS**

- 5.1 Prior to and during surface preparation, the contractor shall record details pertaining to environmental conditions including ambient and surface temperature, relative humidity and dew point.

**6.0 SURFACE PREPARATION**

- 6.1 Prior to the commencement of blast cleaning, all oil and/or dirt shall be removed by solvent cleaning or other accepted methods in accordance with AS/NZS 1627.1.
- 6.2 Sweep blast the surface/s using garnet to comply with the requirements of AS/NZS 4680 and AS2312.2 Clause 7.5.3.2. Ensure all zinc corrosion products (white rust) and other surface contaminants are completely removed. Where sweep blasting is not practicable, hand/power tool cleaning of HDG steel is acceptable by firstly removing any contaminants in accordance with AS1627.1
- 6.3 Galvanised steel surface that is not required to be coated shall be protected with masking materials, which shall be completely removed by the Contractor after completion of the work.
- 6.4 Sharp edges shall be radiused to a minimum of 2 mm.

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**7.0 INSPECTION**

- 7.1 The Contractor shall maintain records and evidence of the original blast surface and blast profile. These shall be made available to the Superintendent and/or delegate at the completion of the project.
- 7.2 The Contractor shall give the Superintendent (or nominated delegate) adequate prior notice as to when and where the surface preparation and coating operations will be conducted to facilitate all specified inspections.
- 7.3 If recognised as a hold point in the ITP, then coating application shall not be carried out until the Superintendent (or nominated delegate) has accepted the surface preparation.

**8.0 CONTRACTOR'S RESPONSIBILITY**

- 8.1 The Contractor shall supply all necessary plant, equipment, materials, and labour, prepare the surface and apply and maintain the protective coating in accordance with this specification.
- 8.2 An Inspection Test Plan (ITP) shall be forwarded to the Water Corporation for review a minimum of ten working days prior to the commencement of work.
- 8.3 A list of all items to be inspected and the relevant drawing reference shall be forwarded to the Water Corporation coating inspector prior to the inspection being undertaken.
- 8.4 The preceding inspection clauses shall not relieve the Contractor of their responsibility to supply materials and perform work in accordance with the requirements of any overriding contract documentation.

<b>Document Revision History</b>					
<b>Sect</b>	<b>Issue</b>	<b>Date</b>	<b>Revision Description</b>	<b>RVWD</b>	<b>APROV</b>
4	4	17/11/2022	Amend coating application qualifications	AO	SS
6	4	17/11/2022	Amend surface preparation	AO	SS

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