

COATING SPECIFICATION

AESTHETIC FINISH COATING ON ABOVE GROUND PVC PIPES & FITTINGS

COATING SPECIFICATION: K1

ISSUE: 4

DATE: MARCH 2023

1.0 SCOPE

This document summarises the coating application procedures for aesthetic finish coatings on PVC pipes and fittings.

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.

It shall be read in conjunction with Water Corporation specification **A6 - Surface Preparation for the application of Protective coatings on Plastics**.

2.0 PURPOSE

The purpose of this coating specification is to provide guideline for coating PVC pipes and fittings for aesthetics reasons (e.g., colour coding) and/or protection against ultra violet (UV) ray induced deterioration. Typical application may include coating of pipework that is connected to chemical tanks.

3.0 DEFINITIONS

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.

Superintendent: The Superintendent for the contract, as defined in the conditions of 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.

4.0 COATING APPLICATOR/PERSONNEL QUALIFICATION

4.1 Work shall only be carried out by competent, experienced personnel.

4.2 The coating contractor shall ensure coating works are performed to the requirements of this Specification and in accordance with the manufacturer's product data sheets and/or recommendations.

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5.0 SURFACE PREPARATION

- 5.1 Refer to Water Corporation Specification A6 - Surface Preparation for the Application of Protective Coatings on Plastics.

6.0 MATERIALS

- 6.1 Coating systems that are suitable for use are WBA (Water Based Acrylic) coating in accordance with Appendix 3 of DS 95- Commonly Used Coatings in Potable Water and Wastewater Infrastructures under, unless approved otherwise by the Principal. Any alternative coating shall be submitted to the Principal and subject to approval by the Principal prior to commencement of repair works.
- 6.2 Coating system information, including technical datasheet, available colours, surface preparation, coating application method statement shall be submitted to the Principal for approval at least 10 working days prior to commencement of work.
- 6.3 Surfaces to be coated that will become inaccessible after assembly or erection shall be cleaned and painted before being assembled.

7.0 COATING APPLICATION AND FINISH

- 7.1 The surfaces specified shall be given two or more coats of an approved single pack 100% water based acrylic emulsion coating.
- 7.2 Application of the coating system shall be carried out as per the paint supplier recommended procedures. Recommended drying times between coats for on-site conditions shall not be exceeded.
- 7.3 Protective coating colours shall comply with AS/NZS 2700 - Colour Standards for General Purposes. For treatment plants, reference shall be made to Water Corporation Colour Code Drawing No. EG71-1-1. Any other proposed colour shall be referred to the Principal for acceptance prior to use.

8.0 INSPECTION AND TESTING OF COATING

- 8.1 The Contractor shall visually examined for surface defects and any discontinuity arising after curing shall be recorded.
- 8.2 The finished coating shall be of uniform thickness, color, appearance and gloss. It shall be adherent, coherent and free from sags, blistering, checking, wrinkling, overspray, patchiness and any other defect that may impair the performance and/or appearance of the coating.

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- 8.3 Defects such as pinholes, cracks, blisters, voids, foreign inclusions and irregular profile peaks shall be marked for repair and retested upon full cure of the repaired coating.

9.0 RECORDING AND REPORTING

- 9.1 Completion Report shall be submitted by the Contractor. The Contractor shall keep records that include but not limited to:
- Detailed quote with scope of works outlining the works completed and used product names
 - Photographic evidence of used coating products, surface before coating preparation, surface after preparation and final coated surface

The Completion Report shall be made available to the Principal's Representative at the completion of the project.

10.0 CONTRACTOR'S RESPONSIBILITY

- 10.1 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.
- 10.2 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.

Document Revision History					
Sect	Issue	Date	Revision Description	RVWD	APROV
5	4	20/03/2023	Amend materials	AO	SS
7	4	20/03/2023	Amend coating finish	AO	SS
9	4	20/03/2023	Amend coating applicator/personnel qualification	AO	SS

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