
TECHNICAL SPECIFICATION

SPECIFICATION: M9

ISSUE:3

DATE: OCTOBER 2022

SUBJECT: GROUTING CONVEX BANDS IN PIPELINES

1.0 INTRODUCTION

This technical specification shall be read in conjunction with Water Corporation Drawing AY58-19-1M . Where there are any conflicts, the requirements in this technical specification shall take precedence.

It shall be the responsibility of the contractor to determine the correct method for any given grouting operation and to comply with this technical specification.

2.0 SCOPE

This Technical Specification shall apply to grouting of convex bands of steel pipes.

For more details on the convex bands, reference shall be made to the Water Corporation drawing AY58-19-1, M.

3.0 DEFINITIONS

Contractor: The service provider or its subcontractor who will undertake the works;

Corporation: The Water Corporation and the Principal for the purpose of externally contracted asset delivery;

Technical Specification: This technical specification;

Works: For the purpose of this Technical Specification means the grout preparation and application to be undertaken by the Contractor to which this Technical Specification applies.

4.0 STANDARDS / CODES

4.1 All grout materials comply with the AS 1478.2 Table 4.1.2.2 and Appendix E or Code(s) of practice (including amendments) specified in the Contract Specification or stated on the Contact Drawings. Grout material shall be suitable for use in contact with drinking water in accordance with AS 4020.

5.0 GENERAL

5.1 The Contractor shall supply all necessary plant, equipment, materials and labour, prepare the surface and apply and maintain the grouting system to pipe bands in accordance with this Specification.

5.2 Work shall only be carried out by companies with experience on projects of similar nature. The Contractor shall be responsible for allocating suitable experienced personell to carry out the job.

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6.0 HIGH AND LOW TEMPERATURE WORKING

- 6.1 For information regarding working at ambient and substrate temperatures above 35° C or below 10° C references shall be made to the Fosroc Conbextra GP® or equivalent technical datasheets.

7.0 EQUIPMENT

- 7.1 Product users shall adhere to current Occupational Health & Safety requirements applicable to their site and all statutory legislation including protective clothing, preparation equipment, mixing and application equipment.

8.0 SUBSTRATE PREPARATION

- 8.1 Surfaces in contact with the grout shall be free of loose rust, loose mill scale, dirt, debris, oil, grease, and any other detrimental material as outlined in Clause 6.0 of AS 1281.
- 8.2 Wire brush and de-grease as required.

9.0 MIXING & APPLICATION OF GROUT

- 9.1 Reference shall be made to the technical datasheet on mixing and flowability of the product.

10.0 SAFETY

- 10.1 Ensure safety is followed at all times during the application. Where the Convex Band has recently undergone welding and grout is applied before the Convex Band has sufficiently cooled, water contained within the grout will be subject to rapid heating and expansion. Hot grout and steam could expel vigorously from the housing. This is a potentially dangerous practice. Where grout is heated sufficiently, a burn risk exists to persons adjacent to the Convex Band.

In addition, water loss from the grout may result in poor hydration and possible creation of voids, thus providing poor protection to the pipeline welds.

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11.0 CAPPING OF CONVEX BAND

11.1 Following grout application to the convex band, no cap welding shall take place within 2 hours or, until such time the grout has visibly set, with no surface moisture present.

12.0 COATING & TAPE WRAP

12.1 For above-ground application, coat the weld band in accordance with Water Corporation coating specification **H3 – Repair of Inorganic Zinc Silicate (IZS) Coated Structures or C2 where colour is required.**

12.2 For below-ground application, tape wrap the weld band in accordance with the Water Corporation coating Design Standard DS 95, **Table 16 – External Coating Buried Pipework – Field Installation.**

Document Revision History					
Sect	Issue	Date	Revision Description	RVWD	APROV
1	3	13/10/2022	Update introduction	AO	SS
5	3	13/10/2022	Clarify general section	AO	SS
8	3	13/10/2022	Update Substrate preparation	AO	SS
12	3	13/10/2022	Clarify coating when colour is required	AO	SS

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