MTube™

Specifications for Cured-In-Place Pipe (CIPP) Tube

1. INTENT

1.1 This document provides specifications for the tube products used in the reconstruction of pipelines and conduits. Proper installation of a resin-impregnated flexible tube produces a tight forming product within the original conduit. The resin is cured using either hot water under hydrostatic pressure or steam pressure within the tube. The Cured-In-Place Pipe (CIPP) will be continuous and permanently fixed within the original pipe.

1.1.1 As installation conditions and experience and techniques differ greatly, Mississippi Textiles Corporation (MTC) excludes any warranty of any kind, express or implied, with respect to the goods sold hereunder as to merchantability, fitness for a particular purpose or any other matter with respect to the goods whether used alone or in combination with other products. MTC has not provided any design specifications; accordingly, MTC does not warrant the design.

2. REFERENCED DOCUMENTS

This specification references standards from the American Society for Testing and Materials, such as: ASTM F1216 (Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube) and ASTM F1743 (Rehabilitation of Existing Pipelines and Conduits by Pulled-in-Place Installation of Cured-in-Place Thermosetting Resin Pipe (CIPP)), which are made a part hereof by such reference and shall be the latest edition and revision thereof.

3. MATERIALS

3.1 Tube - The sewn Tube shall consist of one or more layers of absorbent non-woven felt fabric and shall meet the requirements of ASTM F1216, Section 5.1 or ASTM F1743, Section 5.2.1.

3.1.1 The Tube shall be manufactured to a size, as specified by the customer. Allowance should be made for circumferential stretching during inversion. Overlapped layers of felt in longitudinal seams that cause lumps in the final product shall not be utilized.

3.1.2 The outside layer of the Tube shall be coated with an impermeable, flexible membrane that will contain the resin and allow the resin impregnation (wet out) procedure to be monitored.

3.1.3 The Tube shall be homogeneous across the entire wall thickness containing no intermediate or encapsulated elastomeric layers. No material shall be included in the Tube that may cause delamination in the cured CIPP. No dry or unsaturated layers shall be evident in the wet out tube.

3.1.4 The wall color of the interior pipe surface of CIPP after installation shall be a relatively light, reflective color so that a clear examination with closed circuit television inspection equipment may be made.

3.1.5 Seams in the Tube shall be stronger than the non-seamed felt material.

3.2 Resin - The resin system shall satisfy the requirements of ASTM F1216 and ASTM F1743. The resin system shall produce a CIPP that will comply with the structural and chemical resistance requirements of the relevant ASTM standards.

4. STRUCTURAL REQUIREMENTS

4.1 The CIPP shall be designed by the customer as per ASTM F1216, Appendix X.1.

5. INSTALLATION

Tube Design, Installation and Cool Down shall be performed by the contractor in accordance with ASTM F1216 or ASTM F1743.

5.1 CIPP installation shall be in accordance with ASTM F1216, Section 7, or ASTM F1743, Section 6.

5.1.2 Curing is accomplished by utilizing hot water under hydrostatic pressure or pressurized steam in accordance with the resin manufacturer's recommended cure schedule.

5.1.3 Cool down shall be in accordance with ASTM F1216, Section 7, or ASTM F1743, Section 6.

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