



# Densotherm™ Application Specification

## 1.0 Scope

- 1.1 Application Specifications for the use of Densotherm Hot-Applied Bitumen Tape.

## 2.0 General Requirements

- 2.1 Contractor shall comply with all written recommendations of the manufacturer regarding applications of the specified system.
- 2.2 To obtain the specified materials contact Denso, Inc., 9710 Telge Road, Houston, TX 77095, Tel: (281) 821-3355 or 90 Ironside Crescent Unit 12, Toronto, Ontario, Canada M1X1M3, Tel: 416-291-3435. E-mail: info@densona.com.

## 3.0 Materials

- 3.1 Material shall be Densotherm and Primer D as manufactured by Denso, Inc., 9710 Telge Road, Houston, TX 77095 (Tel) 281-821-3355 (Fax) 281-821-0304 or 90 Ironside Crescent Unit 12, Toronto, Ontario, Canada M1X1M3 (Tel) 416-291-3435 (Fax) 416-291-0898. E-mail: info@densona.com.
- 3.2 Material shall meet the physical properties of the attached product data sheet.
- 3.3 Storage: Refer to TDS.

Care shall be taken to ensure the Denso Primer D is stored up right (arrows on boxes facing up). Note: If the material is kept cold, it will become very viscous.

## 4.0 Surface Preparation

- 4.1 Remove dirt, grease, and oil including excessive moisture in accordance with the requirements of SSPC-SP-1, "Solvent Cleaning".
- 4.2 Remove weld spatter, sharp points, and edges.
- 4.3 Remove loose rust, paint, and foreign matter by hand and/or power tools cleaning in accordance with SSPC-SP-2, or SP-3, "Hand Tool Cleaning" respectively.

## 5.0 Application

- 5.1 If necessary, heating of the pipe shall be done before the application of the primer to ensure the pipe is dry. Apply a uniform coat of Denso Primer D to the pipe surface extending 3 - 4 inches (75 - 100 mm) onto the coating on both sides of the weld area. Allow the primer to get tacky and/or dry to the touch. It is not necessary to apply additional heat over the primer. Continuous brushing of the surface, without adding additional primer to the brush, will help with the drying process. Given that the steel surface is warmed initially, primer should only take 3-5 minutes to get tacky or dry to the touch. If primer is applied and left overnight, moisture must be removed and the re-priming of the pipe must occur before Densotherm is applied.
- 5.2 Lightly heat the adhesive side of the Densotherm Tape (80 mil / 2030 microns thickness) with a wide-mouthed propane torch, so as to create a glossy and wet surface of bitumen. The side of the Densotherm Tape with a backing shall be facing out away from the pipe. Wrap the Densotherm Hot-Applied Tape over the pipe with the heated side placed against the pipe surface. Apply the tape with a certain degree of tension leaving no mislaps or unbonded areas during the application. A spiral-wrap application is preferred, however on larger pipe a cigarette-wrap of strips may be more practical. Make sure that the tape extends over the weld cutback area and onto the mill coating 3-4 inches (75 - 100 mm) on either side of the weld. A 50% overlap of tape is preferred, thus allowing for 150 mils (3810 microns) of total coating thickness.
- 5.3 Once applied to the pipe, flash the exterior of the tape surface lightly with a propane torch to activate the adhesive during the overlap. The backing will begin to melt away which indicates sufficient heat. Once the wrap is completed, lightly heat the exterior of the Densotherm to ensure lap seams have completely fused together. Sufficient time should be allowed before backfill occurs. Backfill can occur immediately after the tape has cooled.

## 6.0 Patching of Damaged Pipe

- 6.1 If the "holiday" or defective coating is disbonded from the pipe surface, it must be removed by scraping using a suitable hand tool. Primer should then be applied over the entire "holiday" area and adjacent coating surface. Using the procedure outlined above, a piece of hot-applied bitumen tape should be cut and cigarette-wrapped longitudinally around the pipe surface covering the "holiday" or defective coating area. On coal-tar or X-TRU Coat coated pipe, the bitumen tape should be pressed into the "holiday" area while hot. Again, one should lightly heat over the bitumen tape once applied.

On patching fusion-bonded (FBE) coating, no pressing of hot-applied tape is necessary as is required with coal-tar or X-Tru Coat. However, a "cigarette-wrap" is still necessary where applicable. Spot patching may be applicable where conditions do not allow for a complete wrap.

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