



Denso Covercoat System™ Column Base Protection

Application Specification Guide

1.0 Scope

- 1.1 This specification may be used for protecting structural steel column bases and structural steel beams.
- 1.2 The Engineer shall select appropriate sections of the specification to ensure that the specification is comprehensive for specified work.

2.0 Materials

- 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 North America, 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@denso.com.

3.0 Materials

3.1 Denso Primers

- 3.1.1 The Denso Hi-Tack™ Primer shall be a high melting point petrolatum with added adhesive properties. The primer is very tacky and aids adhesion of petrolatum tapes.
- 3.1.2 The physical specification values shall meet the values given on the data sheet.

3.2 Denso Profiling Mastic™

- 3.2.1 The Denso Profiling Mastic shall be a cold applied self-supporting molding mastic. It is a petrolatum compound containing beads of closed cell cellular polymer and flow control additives.
- 3.2.2 The Physical specification values shall meet the values given on the data sheet.

3.3 Denso Hi-Tack™ Tape

- 3.3.1 Denso Hi-Tack Tape shall be comprised of a non-woven synthetic fabric impregnated and coated with an adhesive

compound based on petrolatum, polymers and inert siliceous fillers. Adhesion qualities are higher compared to other Denso Petrolatum Tapes.

- 3.3.2 The physical specification values shall meet the values given on the data sheet.

3.4 Denso D14 Scrim™

- 3.4.1 The Denso D14 Scrim shall be a non-woven membrane with longitudinal reinforcing stitching, manufactured from 100% polyester fibers.

- 3.4.2 The physical specification values shall meet the values given on the datasheet.

3.5 Denso Basecoat™

- 3.5.1 Denso Basecoat shall be a two component hard wearing coating, consisting of a liquid portion containing synthetic polymers and waterproofing admixtures and a cementitious powder portion consisting of fine fillers.

- 3.5.2 The physical specification values shall meet the values given on the datasheet.

3.6 Archco 15™

- 3.6.1 Archco 15 shall be a single part, high build, high performance water based acrylic topcoat for Denso Tape Systems.

- 3.6.2 The physical specification values shall meet the values given on the datasheet.

4.0 General Surface Preparation Requirements

- 4.1 Remove dirt, grease and oil including excessive moisture and frost 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" or "Power Tool Cleaning" respectively.

4.4 High pressure water blasting may be used to prepare the surface.

5.0 Application of Denso Hi-Tack Primer

5.1 Apply a thin uniform film over all surfaces to be coated.

5.2 Apply a liberal coating to threads, cavities, shoulders, pits, etc. (See Figure #1).



Figure 1

6.0 Application of Denso Profiling Mastic

6.1 Apply Denso Profiling Mastic to all sides of the column base to form a generous fillet from the vertical column steel to the concrete apron of the plinth at an angle sufficient enough to move water and other liquid contaminants away from the column base up stand. (See Figure #2 & #3).



Figure 2



Figure 3

7.0 Application of Denso Hi-Tack Tape

7.1 Apply one layer of the Denso Hi-Tack Tape to the body of the fitting, ensuring that there is no air entrapped beneath the tape. The Denso Petrolatum Tape should be wide enough to cover the entire fitting and overlap onto the barrel of the pipe by no less than 2 inches. If you are required to join the Denso Petrolatum Tape ensure that

there is an overlap no less than 2 inches between the strips. The Denso Petrolatum Tape should be applied in such a manner that it produces a weatherboard type overlap at its ends. Use a 4 or 6-inch-wide Denso Hi-Tack Tape roll to "lock" the barrel coating in. (See Figure #4 & #5)



Figure 4



Figure 5

8.0 Application of D14 Scrim & Denso Basecoat

8.1 Component A (Grey Powder) is slowly added to Component B (White Liquid) whilst being thoroughly mix using a Wooden Mixing Stick or slow speed drill jiffy mixer. Keep mixing the solution until all the powder has been added and the mixture takes on a smooth slurry texture. The basecoat should be re-mixed every 10-15 minutes to ensure that there is no settling out or separation between the two components.

8.2 Apply a liberal coat of Denso Basecoat by brush to the Denso Hi-Tack Tape, allow a short drying time of 1 hour for the Denso Basecoat to take on a clear/copper appearance. (See Figure #6)

(cont →)



Figure 6

- 8.3 The Denso D14 Scrim sections are “dipped” into the mixed solution of Denso Basecoat, fully saturated in their trimmed states and applied over the Denso Hi-Tack Tape and pressed flat to relieve any trapped air pockets. (See Figure #7).



Figure7

- 8.4 The Denso D14 Scrim is further protected and reinforced by additional liberal amounts of Denso Basecoat. Allow the Denso Basecoat to cure for a further 12 hours before applying Archco 15.

9.0 Application of Archco 15

- 6.1 Archco 15 shall be applied in two coats consisting of approximately 10 to 12 mils (254 - 305 microns) wet-film thickness per coat. Recoat time is approximately 1 to 2 hours at 77°F (25°C). (See Figure #8)



Figure 8



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