

# (ANTI-CORROSIVE PIPE WRAPPING TAPE) RECPL-703

#### **OVERVIEW**

RANSPIPE-CBT 3MM is an Anti-Corrosive tape based on Coal Tar/ Bitumen and specifically designed to comply with the requirements of IS: 10221-1982. It incorporates a centre core of 45 gsm/sqm of Fibre Glass Tissue and HMHDPE film of 20 micron which lends mechanical strength, dimensional stability to the product. These centre cores are laminated with 3 layers of coal tar or bitumen mix. The final product has a top and bottom layer of thermo fusible HMHDPE Film. All the seven layers are calendared together to create this revolutionary 2mm thick tape. The material conforms to IS: 15337-2003 and AWWA: C203-2008.

#### **PROPERTIES**

- Excellent resistance to positive water & vapor pressure.
- Good heat resistance.
- Moisture Resistance.
- Good dimensional stability under tension.
- High puncture and fatigue resistance.
- High tensile and tear strengths.
- Corrosion Prevention.

#### **INSTRUCTIONS FOR USE**

The application temperature should be between 5°C to 45°C. Application procedures may vary slightly depending upon site conditions. The general recommended guidelines for the application of the waterproofing system are as follows:

#### **SURFACE PREPARATION**

The surface shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil and grease. All surface imperfections and protrusions shall be removed and repaired.

#### **PRIMING**

Apply Solvent based RANSBITU-PRIMER @ 0.3-0.4L /Sqmt as per ASTM D 41 & IS: 3384-1986 and BS 4147-1980 to a clean smooth and dry surface by brush, roller or spray. Allow the primer to dry prior to the application of the membrane. As the viscosity of the primer is low, it easily creates adhesion between the membrane and the pipe surface. In addition to that the

primer also acts as a binder for the dust which gets accumulated on the pipe surface even after cleaning. **ALIGNMENT & TORCHING** 

After RANSBITU-PRIMER, next step is followed; RANSPIPE-CBT 3MM Pipe Wrap Coating is then wrapped around the pipe in spiral fashion and bonded to pipe by thermo fusion process using LPG Torch. An overlap of 10mm is to be allowed. The overlaps are to be sealed by thermo fusion process.

- An area of 250 mm at the end of the Pipes is to be left uncoated to permit installation and welding. This area is to be coated after welding.
- CAUTION
- Do not over torch the membrane as this will expose the reinforcement and cause damage to it.
- SEALING
- Heat both the overlaps and use round tipped trowel to seal the overlap. Adequate heat is confirmed when a uniform flow of melted bitumen compound flows evenly in a bead that oozes from the applied membrane's edges. Excess compound should be smoothened and pressed into the seam using a heated trowel. Any un-bonded areas must be lifted and re-torched. Do not attempt to reseal by torching the top surface of the membrane. Up stand.
- Flashing details are accomplished using cut pieces of **RANSPIPE-CBT 3MM** in combination with appropriate prefabricated flashing components. The same side lap and end lap rules apply to flashing details as to field membrane.

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All angles and abutments should be sealed with extra care to ensure full bonding. All brushes and tools should be cleaned by water immediately after use. **PRECAUTION:** 

Wash all the tools and tackles with industrial solvent immediately after the application is completed.

#### **HEALTH & SAFETY**

Avoid prolonged contact with eyes and skin. For detailed information refer to relevant material safety data sheet.

#### **PACKGING & STORAGE**

**RANSPIPE-CBT** is supplied in  $(10.00 \, \text{Mtr} \, \text{L} \, \text{x} \, 1.00 \, \text{Mtr} \, \text{W})$  as per given details:-

#### **THICKNESS:-**

**2MM** - (1Mx10M), **Weight** - 2.5 Kg-2.8 Kg

**3MM** - (1Mx1M), **Weight** - 3.75 Kg-4.0 Kg

4MM - (1Mx10M), Weight - 5.0 Kg-5.2 Kg

Store Rolls in a clean dry area protected from direct sunlight and extreme heat and cold. Unopened Rolls can be stored for 12 months.



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### TECHNICAL DATA

| TECHNICAL  | Product 3mm Anti-Corrosive Pipe Wrapping Tape   |                                      |  |   |                                 |                     |                                       |
|--|---|--------------------------------------|--|---|---------------------------------|---------------------|---------------------------------------|
| RAW COAL   |   |                                      | PHYSICAL PROPERTIES OF COAL TAR TAPE   |   |                                 |                     |                                       |
| Characterizat<br>Softening poi   | ion Values Stan   | dard<br>4 D36                        | Property   | R   | lequirem<br>Ain.                |                     | Test method                           |
| Ash content, Physical state FILLER Characteristi Fineness: % w/w, minimu       | % 0.5 Max. ASTM Solid at ambient tem  cs Requirement Test N Shall pass through mesh size of 75  | 1 D24l5<br>perature<br><b>1ethod</b> | Service temperature (1) Tape thickness m1T1 Weight average (kg/sc Breaking strength in lo direction kN/m Adhesion Insoluble content % by | q.m/mm)<br>ongitudinal<br>AWW   | 3.0<br>1.25<br>0.7<br>VA C-203. | 60<br>3.5<br>-<br>- | AWWA C-203<br>ASTM D146<br>AWWA C-203 |
| microns ASTM D1366  Loss on ignition at 800° C, w/w max. 10 ASTM D1208  FABRIC |   |                                      | PHYSICAL PROPERT   | 93 minimum (procedure given in ANNEXURE-I) PERTIES OF COAL TAR COMPONENT IN THE   |                                 |                     |                                       |
|  |   |                                      | FINISH TAPE  |   |                                 |                     |                                       |
| Type   | The fabric shall be a thin, uniform mat or tissue con of glass fibers in an open structure bonded with a s resinous inert material compatible with coal tar.  | nposed                               | Property  Softening point ( 0C) Penetration at 250C/ 100g/ 10 ' mm/5sec Filler %   | Requi<br>Min.<br>65<br>1<br>20  | irement<br>Max.<br>12 l<br>9    | ASTM                | D36<br>D5/BS-4164<br>D 2415 or        |
| Weight (m<br>in) g/m2  | 40  |                                      | AWWA C-203  TECHNICAL CHARACTERISTICES FOR PIPE WRAP PRIMER  |   |                                 |                     |                                       |
| Thickness<br>(min.) mm   | onickness in.) mm  eaking ad in the ingitudinal rection.  Toosity  When related to pressure difference across the sample, the glass fibre fabric shall have porosity of not less than 0.6mm and not more than 1.9mm of water at an average air velocity of 61 m/minute (l m/sec.)  The fabric shall be unaffected |                                      | Туре   | Fast drying, synthetic, chlorinated rubber-<br>synthetic plasticizer-solvent based  |                                 |                     |                                       |
| load in the longitudinal direction.  |   |                                      | Drying time (tack free) Flash point  | 15 minutes (approx.) (ASTM D1640)  > 230C (ASTM D93/D3941)  |                                 |                     |                                       |
| Porosity   |   |                                      | Volatile matter (105-<br>11 OOC) percent by<br>mass<br>Viscosity, on FORD<br>CUP NO.<br>4 (4mm nozzle) at<br>230C                        | 75 (maximum) (ASTM D2369)  35-60 seconds (ASTM D1200)   |                                 |                     |                                       |
| Temperature<br>Resistance  |   |                                      | DFT Coverage (Theoretical)   | 25 microns/coat (minimum) 10 M2/Lit/Coat  |                                 |                     |                                       |
| Pliability test  |   |                                      | Coverage (Practical) @ 25 microns DFT coat Application properties  | 6 M2/Lit/Coat (minimum) (ASTM D344)  By brush/ spray should produce an effective bond between metal and subsequent coaltar tape |                                 |                     |                                       |
|  |   |                                      | Adhesion test ( after 72 hours)  | The primer shall be tested after applying tape coating as per AWWA C-203.   |                                 |                     |                                       |



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## PICTURES/IMAGES AT GLANCE





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