

OVERVIEW

RANSPIPE-CBT 2MM 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. <u>ALIGNMENT & TORCHING</u>

After **RANSBITU-PRIMER**, next step is followed; **RANSPIPE-CBT 2MM** 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.

- A second coat of primer is applied over the first layer of RANSPIPE-CBT 2MM and allowed to dry till it becomes tacky.
 - **RANSPIPE-CBT 2MM** second layer is spirally wound over the first layer in spiral fashion and the overlaps are thermo fused.
- 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.

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RANSPIPE-CBT 2MM (ANTI-CORROSIVE PIPE WRAPPING TAPE) RECPL-702

Flashing details are accomplished using cut pieces of **RANSPIPE-CBT 2MM** in combination with appropriate prefabricated flashing components. The same side lap and end lap rules apply to flashing details as to field membrane.

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 Mtr L x 1.00 Mtr 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.



TECHNICAI	L DATA							
		Product	2mm Anti-Corrosive Pipe Wrapping Tape					
RAW COAL	TAR PITCH		PHYSICAL PROPERTIES OF COAL TAR TAPE					
Characterization Values Standard			Property		Requirem		Test method	
Softening poi		ASTM D36	Comico toma onoticas ()		Min.	Max.		
	Specific gravity 1.30z0.05 ASTM D71		Service temperature (0 C)	-	60 2 5		
Ash content, % 0.5 Max. ASTM D2415		Tape thickness m1T1		2.0	2.5	AWWA C-203		
Physical state Solid at ambient temperature			Weight average (kg/sq.m/mm)		1.25	-	ASTM DI46	
<u>FILLER</u> Characteristics Requirement Test Method			Breaking strength in lo	ongitudinal	0.7	-	AWWA C-203	
-			direction kN/m					
			Adhesion AWWA C-203.					
w/w, minimum mesh size of 75			Insoluble content % by wt. in					
microns ASTM D1366			Petrol 93 minimum (procedure given in					
Loss on ignition at 800° C, w/w max. 10 ASTM D1208				ANNEXURE-I)				
FABRIC	w max. 10	ASTM D1208	PHYSICAL PRODERT	TES OF COAL		MPON	INT IN THE	
TADIC			PHYSICAL PROPERTIES OF COAL TAR COMPONENT IN THE FINISH TAPE					
Туре	The fabric shall be	a thin, flexible,	Property	Requ	irement	Test n	ethod	
	uniform mat or tis	sue composed	p)	Min.				
	of glass fibers in a	n open	Softening point (0C)	65	121	ASTM	D36	
	structure bonded		Penetration at 250C/	1	9		D5/BS-4164	
	resinous inert material compatible with coal tar.		100g/10 ' mm/5sec				- /	
	compatible with co	Jai tar.	Filler %	20	35	ASTM	D 2415 or	
Weight (m	40						A C-203	
in) g/m2			TECHNICAL CHARACTERISTICES FOR PIPE WRAP PRIMER					
Thickness	0.3							
(min.) mm			Туре	Fast drying, synthetic, chlorinated rubber- synthetic plasticizer-solvent based				
Breaking	2.28KN/m (min.)		Drying time (tack 15 minutes (approx.) (ASTM D1640)					
load in the			free)	15 minutes (approx.) (ASTM D1040)				
longitudinal direction.			Flash point	> 230C (ASTM D93/D3941)				
Porosity	When related to p	When related to pressure		75 (maximum) (ASTM D2369)				
1 0100109	difference across the sample, the glass fibre fabric shall have		Volatile matter (105- 11 OOC) percent by	70 (maximu		22007)		
			mass					
porosity of not l		s than 0.6mm	Viscosity, on FORD	35-60 seconds (ASTM D1200)				
	and not more than 1.9mm of water at an average air velocity of 61 m/minute (1 m/sec.)		CUP NO.					
			4 (4mm nozzle) at					
Temperature			230C DFT	25 microns/coat (minimum)				
Resistance	under load in hot coal tar at		DFI	25 microns/ coat (minimunt)				
288°C for one minute. It shall no			Coverage	10 M2/Lit/Coat				
shrink length wise or width wise.			(Theoretical)	6 M2/Lit/Coat (minimum) (ASTM D344)				
Pliability test	No cracking shall take place when bent over a mandrel of 3mm radius through 90° arc at a uniform speed of approximately 2 seconds after immersing in water for 10 to 15 minutes.		Coverage (Practical)	6 M2/Lit/Co	oat (minin	num) (AS	5TM D344)	
			@ 25 microns DFT					
			coat Application	Bu bruch / or	marchaul	d produ	a an offective	
			properties	By brush/ spray should produce an effective bond				
			Properties	between met	al and sul	osequent	coaltar tape	
			Adhesion test (after				applying tape	
			72 hours)	coating as pe				
				<u> </u>				



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PICTURES/IMAGES AT GLANCE





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