

### OVERVIEW

CLEXOPIPE-PWT 4MM is a high quality bitumen or coal tar based wrapping and coating anticorrosive tapes which confirm to IS: 10221-1982. It incorporates a center core of 45gsm of fiber glass tissue and HMHDPE film of 20 micron which lends mechanical strength, dimensional stability to the product. It is made up of specially formulated polymeric mix provides high softening point, high penetration and resistance to ageing. The tape comprises of thermo fusible HMHDPE film on both sides which provides high anticorrosive protection to the pipe lines and aids in the installation process. The material conforms to IS: 15337-2003 and AWWA: C203-2008. CLEXOPIPE-PWT is available in 2mm, 3mm & 4mm thickness.

### PROPERTIES

- Excellent resistance to positive water & vapor pressure.
- Good heat resistance.
- Moisture resistance
- Good dimensional stability under tension.
- Easy to apply with low cost.
- 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 CLEXODAM-PRIME @ 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 CLEXODAM-PRIME, next step is followed; CLEXOPIPE-PWT 4MM 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 CLEXOPIPE-PWT 4MM and allowed to dry till it becomes tacky.

CLEXOPIPE-PWT 4MM second layer is spirally wound over the first layer in spiral fashion and the overlaps are thermo fused. Up stand.

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 unbonded areas must be lifted and re-torched. Do not attempt to reseal by torching the top surface of the membrane.

Flashing details are accomplished using cut pieces of CLEXOPIPE-PWT 4MM 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**

As with all chemicals, caution should always be exercised. avoid prolonged contact with eyes and skin. Protective clothing such as gloves and goggles should be worn. See the relevant material safety data sheet for more information.

**PACKING & STORAGE**

PACKING & STORAGE CLEXOPIPE-PWT is available in (10.00 Mtr L x 1.00Mtr W) as per given details:-

**THICKNESS:-**

**2MM** – (1Mx10M), **Weight** - 2.8 Kg-3.0 Kg

**3MM** – (1Mx1M), **Weight** - 3.8 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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## CLEXOPIPE-PWT (4MM)

(ANTI-CORROSIVE PIPE WRAPPING TAPE)

CECPL-6003

RAW COAL TAR PITCH		Product	4mm Anti-Corrosive Pipe Wrapping Tape			
Characterization Values		Standard	PHYSICAL PROPERTIES OF COAL TAR TAPE			
Softening point 0°C		65 121	Property	Requirement		Test methodMin.
		ASTM D36 Specific		Max.		
gravity	1.30±0.05	ASTM D71	Service temperature ( 0°C)	-	60	-
Ash content, %	0.5 Max.	ASTM D2415	Tape thickness mIT1	4.0	4.5	AWWA C-203
Physical state	Solid at ambient temperature		Weight average (kg/sq.m/mm)	1.25	-	ASTM DI46
FILLER			Breaking strength in longitudinal direction kN/m	0.7	-	A WA C-203
Characteristics	Requirement	Test Method	Adhesion	AWWA C-203.		
Fineness: %	Shall pass through		Insoluble content % by wt. in			
w/w, minimum	mesh size of 75 microns		Petrol	93 minimum (procedure gi en in ANNEXURE-I)		
Loss on ignition at 800° C, w/w max.	10	ASTM D1208				
FABRIC			PHYSICAL PROPERTIES OF COAL TAR COMPONENT IN THE FINISH TAPE			
Type	The fabric shall be a thin, flexible, uniform mat or tissue composed of glass fibers in an open structure bonded with a suitable resinous inert material compatible with coal tar.		Property	Requirement		Test methodMin.
				Max.		
			Softening point ( 0C)	65	121	ASTM D36 Penetration
			at 250C/	1	9	ASTM D5/BS-4164100g/
			10 ' mm/5sec			
			Filler %	20	35	ASTM D 2415 or AWWA C-203
			TECHNICAL CHARACTERISTICS FOR PIPE WRAP RIMER			
Type			Fast drying, synthetic, chlorinated rubber-synthetic plasticizer-solvent based			
Drying time (tack free)			15 minutes (approx.) (ASTM D1640)			
Flash point			> 230C (ASTM D93/D3941)			
Volatile matter (105-11 OOC) percent by mass			75 (maximum) (ASTM D2369)			
Viscosity, on FORD			35-60 seconds (ASTM D1200)			
CUP NO. 4 (4mm nozzle) at 230C						
DFT			25 microns/coat (minimum)			
Coverage (Theoretical)			10 M2/Lit/Coat			
Coverage (Practical) @ 25 microns DFT coat			6 M2/Lit/Coat (minimum) (ASTM D344)			
Application properties			By brush/ spray should produce an effective bond between metal and subsequent coal tar tape			
Adhesion test ( after 72 hours)			The primer shall be tested afte applying tape coating as per AWWA C-203.			
Temperature Resistance	The fabric shall be unaffected under load in hot coal tar at 288°C for one minute. It shall not shrink length wise or width wise.					
Pliability test	90° arc at a uniform speed of approximately 2 seconds after immersing in water for 10 to 15 minutes.					

For further details visit: [www.clexoengineering.com](http://www.clexoengineering.com)

October 2022 – Issued by CLEXO Technical Centre,

We are driving Waterproofing administrations supplier and waterproofing workers for hire in India. We give 5 and 10 years guarantee (relies upon the material quality) on our all administrations including new and old administrations from us.

CLEXO ENGINEERING & CHEMICALS PVT. LTD. has remained an expert waterproofing administrations worker for hire on both new developments

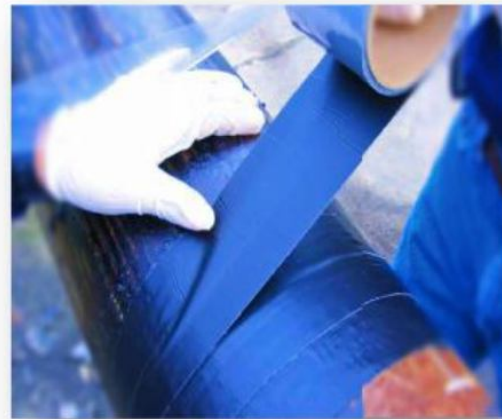


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## **CLEXOPIPE-PWT (4MM)** (ANTI-CORROSIVE PIPE WRAPPING TAPE)

CECPL-6003

### **PICTURES/IMAGES AT GLANCE**



### **CLEXO ENGINEERING & CHEMICALS PVT. LTD**



[An ISO 9001: 2015 Company]

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