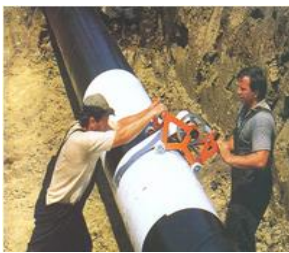


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# JINING XUNDA PIPE COATING MATERIALS CO.,LTD



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<http://www.xundatape.com>

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## 1、 Company Profile

### About Us

- **Xunda Groups:**

**Jining Xunda Pipe Coating Materials CO.,Ltd**

**Shandong Xunda Science & Technology CO.,Ltd**

**Shandong Xunda Anticorrosion Heat-Shrinkable Technology CO.,Ltd**

We are the most largest manufacturers of Polyethylene Tape for the Corrosion Control of pipelines and specialty applications. A joint-stock enterprise, possessing a gross investment of RMB 42 million, registered capital of RMB 20 million.

- A Global company supplying Polyethylene Coating Systems to the corrosion industry within the oil, gas and water pipeline construction industry for both onshore and offshore applications.
- A manufacturer of standard and specialty products.
- High-quality anti-corrosion systems providing anti-corrosion solutions for oil pipelines, natural gas, chemicals and water transmission and distribution pipelines, etc.
- Global supplier of PE corrosion system for metallic pipelines

We are the High quality supplier of CNPC ,SINOPEC ,CNOOC,If you need , we can supply vendor code to you for check.

### Industries that We Serve

- Oil, Gas and Water Transmission pipeline market
- Oil and Gas distribution and utility markets
- New pipeline construction markets
- Rehabilitation and Reconditioning market
- Offshore Industry
- Refinery and Petrochemical Plant Industry
- Manufacture of Polyethylene coatings utilizing Butyl based elastomeric adhesives, Polyethylene films and liquid adhesives for corrosion protection of steel pipe.
- Provides corrosion protection with the inherent chemistry of Polyethylene and Butyl Adhesive for resistance to water and oxygen penetration. Oxygen and Water are prevented from reaching the metal substrate, which are necessary and sufficient conditions for corrosion.
- Manufacture of conventional and specialty Polyethylene, Polypropylene and Polymeric Alloys and coating systems for pipe corrosion protection.
- Manufactures PE coatings systems for applications for New Pipe Construction and Rehabilitation and Reconditioning
- Approved to ISO 9001 and to other good manufacturing and technical standards and norms governed within the energy and pipeline industry.
- Coating systems that have a broad range of temperature and shear resistance properties to meet the requirements of the pipeline and end-user.

## Key Advantages

- 17 years of pipeline coating experience
- Global presence in oil, gas and water industries
- Total manufacturer of Polyethylene, Polypropylene coating systems
- Innovative coatings, high temperature systems and niche coatings with first quality products
- Multiple coating systems to meet end-user applications and requirements
- Broad range of products to meet pipeline requirements
- Tailor made products to specific application on demand by the end-user
- High Quality products through innovative technology, manufacturing methodologies and first quality raw materials
- ISO approved manufacturing protocol
- Xunda products and coating systems approved to ASTM D1000, AWWA C 214, C 209, EN 12068, DIN 30672 and other standards
- Standard manufacturing methodologies
- State of the art quality control/assurance procedures and protocol
- Technology/R&D programs for new products and new processes
- Adaptable to manufacturing specific request within short time frames
- Proven long-term performance and corrosion protection on operating pipelines
- Coating applied in plant and over-the-ditch
- Easy of application, consistent application and lower costs
- Compatible with traditional and current corrosion coatings
- Technical support
- Just-in-Time delivery on a global basis
- Achieving and exceeding Client requirements for products, packaging and shipment expectations
- Meeting all International and In-Country transportation requirements
- Girth weld coating applied in Bell-hole or out of the ditch

## Type of Products/ Services Offered

- Anticorrosion and Mechanical Protection Tape-2ply & 3ply
- Primers
- Fillers
- Wrapping Machines
- Technical Assistance
- Coatings for the joint
- Special products

## **Tape Coating Systems**

- Line travel, over-the-ditch coatings and application
- Can be applied with a powered wrappers
- Can be used for new pipeline construction
- Can be used for pipeline rehabilitation/reconditionin
- Used in the oil, gas and water pipeline industry
- Offshore and Refinery coatings

## **Functionality to a Coating System**

- High adhesion strength
- High shear resistance and shear strength
- Cathodic disbonding resistance
- Dielectric strength and electrical resistance
- Resistance to impact and penetration forces and stresses
- Stable to thermal and hydrolytic environments
- Long term performance stability
- Compatible with cathodic protection
- Resistant to UV radiation
- Mechanical protection

## **Manufacturing Technology**

- Calendering process for the lamination of the tape and outer-wrap produce
- Calendering 2 Ply and 3 Ply Polyethylene tape systems within Xunda's manufacturing facility using vertical integration of resources
- Slitting on site for the various sizes of products to meet application requirements
- Packaging on site with specified packaging specification
- Polyethylene blending of Polyolefin resins to meet client and end-user requirements
- Manufacture to int'l and specific client standards and norms manufacture

## Features to the Client & Industry

- Major global Polyethylene tape manufacture
- Vertical integration of our process and products
- Project management
- Products approved by most int'l standards
- 2 Ply and 3 Ply tape coating system
- Specific high shear coatings
- Proven long term performance on a global basis
- Active technology efforts to obtain certifications, approvals and working with our clients for specific applications

## Approvals by Int'l Standards

- DIN 30672
- EN Standards EN 12068
- ASTM Test Methods ASTM D 1000
- American Water Standards (AWWA) C 209 & 214
- Indonesian Standards (PERTAMINA)
- Iran Standards-NIGC & IGS
- China Standards SYT 0414-2007

## 2 Polyethylene Anti-corrosion Tapes /Inner tape(T 100)

### I System description:

The XUNDA-T-100 series is Cold applied tape coating system for corrosion protection of Oil, Gas, Petrochemical, and Waste Water underground or overhead pipelines.

The **inner-layer tape** shall be applied after the Liquid adhesive and before the outer-layer tape by hand or with a wrapping machine

**Another name:** Inner wrap tape, Inner wrapping tape, Inner tape, Anti-corrosion tape

### II Structure:

The specification of the tape consists of two layers, adhesive layer and film backing

Adhesive: Butyl rubber

Film backing: Special blend of stabilized polyethylene

### III Features:

Excellent adhesion to pipe and self

Can be applied over a wide temperature range

Good conformability and consistent uniform thickness

Easily applied with no special equipment

Compatible with common pipe coatings

Excellent resistance to cathodic disbonding

Meets ASTM D 1000 and other int'l Standards

Cold applied

### IV Physical Properties



### INNER-LAYER TAPE: XUNDA-T 100 Series

Item&Standard	T-150	T-165	T-175
Total thickness(ASTM D 1000)	0.510 mm	0.635 mm	0.762 mm
Backing thickness(ASTM D 1000)	0.310 mm	0.335 mm	0.390 mm
Adhesive thickness(ASTM D 1000)	0.200 mm	0.300 mm	0.372 mm
Elongation at Break(ASTM D 1000)	≥ 400%		
Tensile Strength(ASTM D 1000)	55 N/cm	60 N/cm	63 N/cm
Yield Strength(ASTM D 1000)	40 N/cm	45 N/cm	50 N/cm
Peel Adhesion to Primed Steel Pipe(ASTM D 1000)	25 N/cm	30 N/cm	32 N/cm
Dielectric Strength(ASTM D 1000/D 149)	35 KV	42 KV	45 KV
Cathodic Disbandment (ASTM G8)	0.24 in radius 6.4 mm		
Volume Resistivity(ASTM D 257)	$2.5 \times 10^{12}$ ohm.m		
Water Vapor Transmission Rate (ASTM F1249)	≤ 0.1gm/M <sup>2</sup> /24h		
Water Absorption Rate(ASTM D 570)	< 0.10%		
Recommended Application Temperature	-5 to +60 °C		
Max Serve Temperature	-40 to + 85 °C		
Color	Black		
Available Roll Size (width x length)	2" to 32" X 50' to 800'		

### 3 Polyethylene Protective Tapes/ Outer tape ( T 200)

#### I System description:

The XUNDA-T200 series is Cold applied tape coating system for corrosion protection of Oil, Gas, Petrochemical, and Waste Water underground or overhead pipelines. The outer-layer tape backing shall be compounded so that it will be resistance to outdoor weathering.

The **outer-layer tape** shall be applied after the inner-layer tape by hand or with a wrapping machine

**Another name:**Outer wrap/Wrapping tape, Outer tape,Protection tape, Protective tape, Mechanical protection tape

#### II Structure:

The specification of the tape consists of two layers, adhesive layer and film backing

Adhesive: butyl rubber

Film backing: Special blend of stabilized polyethylene

#### III Features:

Excellent adhesion to inner-layer tape and self

Resistant to UV

Can be applied over a wide temperature range

Good conformability and consistent uniform thickness

Easily applied with no special equipment

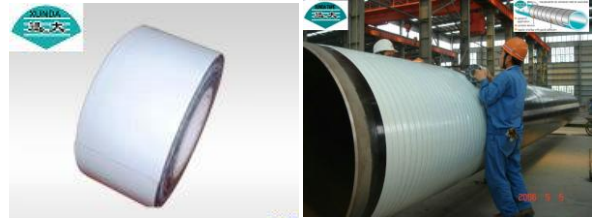
Compatible with common pipe coatings

Excellent resistance to cathodic disbonding

Meets ASTM D 1000 and other Int'l Standards

Cold applied

#### IV Physical Properties



#### OUTER-LAYER TAPE: XUNDA-T200 Series

Item& Standards	T 250	T 265	T 275
Total thickness(ASTM D 1000)	0.510 mm	0.635 mm	0.762 mm
Backing thickness(ASTM D 1000)	0.380 mm	0.500 mm	0.580mm
Adhesive thickness(ASTM D 1000)	0.130 mm	0.135mm	0.182 mm
Elongation at Break(ASTM D 1000)	≥ 400%		
Tensile Strength(ASTM D 1000)	70 N/cm	73 N/cm	78 N/cm
Yield Strength(ASTM D 1000)	41 N/cm	46 N/cm	52 N/cm
Peel Adhesion to inner tape(ASTM D1000)	≥ 5N/cm		
Dielectric Strength(ASTM D 1000/D 149)	36 KV	45KV	48 KV
Cathodic Disbandment (ASTM G8)	0.24 in radius 6.4 mm		
Volume Resistivity(ASTM D 257)	$2.5 \times 10^{12}$ ohm.m		
Water Vapor Transmission Rate (ASTM F1249)	≤ 0.1 gm/M <sup>2</sup> /24h		
Water Absorption Rate(ASTM D 570)	< 0.10%		
Recommended Application Temperature	-5 °Cto +60°C		
Color	White		
Max Serve Temperature	-40 to + 85 °C		
Available Roll Size (width x length)	2" to 32" X 50 to 800'		



### 4 Polyethylene Joint Wrap Tapes ( T 300)

#### I System description:

The XUNDA-T300 series is Cold applied tape coating system for anti corrosion of field joints, fittings, and specifically piping. The adhesive is a key in ground performance characteristic coupled with the low and high density polyethylene backing.

The **Joint wrap tape** shall be applied by hand or with a wrapping machine.

**Another Name:**Joining tape,Welding wrapping tape,Joint coating tape

#### II Structure:

The specification of the tape consists of two or three layers, adhesive layer and film backin, some customer like add one layer release paper.

Adhesive: butyl rubber

Film backing: Special blend of stabilized polyethylene

#### III Features:

Heavy duty adhesive

Resistant to UV

Can be applied over a wide temperature range

Good conformability and consistent uniform thickness

Easily applied with no special equipment

Conformable to irregular shapes.

Meets ASTM D 1000 and other Int'l Standards

Cold applied



#### IV Physical Properties

##### JOINT WRAP TAPE:XUNDA-T 300 Series

Item&Standards	T-380	T-390	T-3100	T-3130
Total thickness (ASTM D 1000)	0.76 mm	0.89 mm	1.02 mm	1.27 mm
Backing thickness (ASTM D 1000)	0.28 mm	0.30 mm	0.35 mm	0.50 mm
Adhesive thickness (ASTM D 1000)	0.48 mm	0.59 mm	0.67 mm	0.77 mm
Tensile strength (ASTM D 1000)	50N/ cm	55N/ cm	60N/ cm	63N/ cm
Elongation (ASTM D 1000)	≥400%			
Adhesion to Primed Pipe (ASTM D 1000)	28N/cm	30N/cm	32N/cm	35N/cm
Dielectric Strength (ASTM D 1000/D 149)	42KV	43 KV	44 KV	45KV
Volume Resistivity (ASTM D 257)	≥2.5x10 <sup>12</sup> Ω.m			
Water Vapor Transmission Rate (24h)(ASTM F1249)	≤0.1g/m <sup>2</sup>			
Water Absorption Rate(ASTM D 570)	≤0.1%			
UV Resistance 600h	≥80 %			
Recommended Application Temperature	-5 °Cto +60°C			
Color	Black,White,Blue or others			
Max Serve Temperature	-40 to + 85 °C			
Available Roll Size (width x length)	2" to 32" X 30 to 800'			

## 5 Polyethylene 3 ply Inner Tapes (T 400)

### I System description:

The XUNDA-T400 series is Cold applied tape coating system for corrosion protection of Oil, Gas, Petrochemical, and Waste Water underground or overhead pipelines.

It is a three-ply cold applied tape with stabilised polyethylene backing and butyl rubber adhesive layers on both sides. It is also used as inner-layer tape. It shall be applied by hand or with a wrapping machine

The **3 Ply tape** as inner tape ,it shall be applied after the Liquid adhesive and before the outer-layer tape by hand or with a wrapping machine

### II Structure

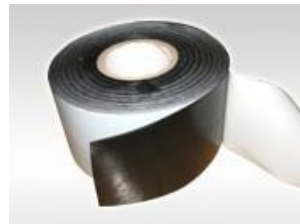
The specification of the tape consists of four layers,

Internal Adhesive layer:Butyl rubber

External Adhesive layer: Butyl rubber

Film backing:Special blend of stabilized polyolefin

Interleaf:Anti adhesive Film Treated with Silicone



### III Features:

Excellent bonding between adhesive and carrier film via co-extruded intermediate layer.

Mechanically highly resistant tape system.

Practically impermeable to water vapor and oxygen.

Resistant to soil bacterial and soil electrolyte.

Compatible with coating from PE,PP,FBE,PU,CTE and Bitumen and ext... .

A Total Coating System with:

High adhesion and shear resistance

Resistance to corrosion disbondment

High electrical resistance

High dielectric strength

High corrosion protection for steel substrates

### IV Physical Properties

#### 3 PLY INNER TAPE XUNDA- T 400 series

PROPERTIES	UNIT	T 480	T 4100	TEST METHOD
Color Carrier film	--	black(grey/green)	black(grey/green)	--
Adhesive inner layer		black	black	
Adhesive outer layer		black	blac	
Thickness Carrier film	mm	0.30	0.30	ASTM D 1000
Internal Adhesive	mm	0.34	0.45	
External Ahesive	mm	0.16	0.25	
Tensile strength	N/cm	67	70	ASTMD1000
Elongation at break	%	450	500	ASTMD1000

Peel strength to pipe surface at 23 °C at 50°C	N/cm	18 1.3	20 1.5	EN 12068 Annex C
Peel strength tape to tape at 23 °C at 50°C	N/cm	25 3.5	30 4.0	EN 12068 Annex B
Dielectric strength	Kv/mm	32	33.8	ASTMD149
Insulation Resistance	Ohm.m <sup>2</sup>	10 <sup>12</sup>	10 <sup>12</sup>	EN 12068
Water Vapor Transmission	g/ m <sup>2</sup> /24h	0.1	0.1	ASTM E 96
Brittleness temperature	°C	-46±4	-46±4	DIN53372
Water Absorption	%	0.1 max	0.1 max	ASTM D 570
Impact resistance at 23°	J	18	18	EN 12068
Cathodic disbandment at 23°C at 50°C	mm	15 30	15 30	EN 12068
Lap shear strength at 50°C	N/mm <sup>2</sup>	0.05	0.05	EN 12068

#### IV.TAPE - INNERWRAP - CORROSION PROTECTION TAPE

Asymmetrically structured three-ply plastics tape consisting of a stabilized polyethylene backing with plastic butyl rubber on **both** sides. The consistency of the butyl rubber on the **one** side facing the pipe surface should be formulated in such a way that, under tension, it flows on uneven steel surfaces. To facilitate correct application this butyl layer should be of a **black color**. The grey butyl layer of the tape must face the steel and this should always be the thicker layer of butyl rubber.

In order to avoid delaminating tape must contain co-extruded intermediate layers.

The tape must be fully compatible with the properties of the primer. The tape must be self-amalgamating between the layers and at the overlaps and must have a release paper or film.

#### V.TAPE ROLL SIZES

- a) **Hand application roll core diameter 41 mm**  
 Tape length 15 m  
 Tape widths 50 and 100 mm
- b) Application with **hand wrapping machine**, roll **core diameter 41 mm**  
 Tape length 15 m  
 Tape widths 50 and 100 mm
- c) Application with **hand wrapping machine**, roll **core diameter 78 mm**  
 Tape length depending on pipe diameter  
 Tape widths 100 and 150 mm
- d) Application with **motor driven wrapping machine**, roll **core diameter 78 mm**  
 Tape length depending on pipe diameter  
 Tape widths 100 and 150 mm

#### VI.TAPE - OUTERWRAP - MECHANICAL PROTECTION TAPE

Two-ply plastics tape consisting of a stabilized high density polyethylene backing with plastic butyl rubber on **one** side. The outer wrap tape must be fully compatible with the properties of the inner wrap. The outer wrap must fully self-amalgamate with the inner wrap tape at contact areas.

In order to avoid delaminating between carrier film and butyl rubber, tape should contain co-extruded intermediate layers.

## VII.TAPE SYSTEM

Tape system shall comply with EN 12068 (stress-class C-50) and DIN 30672 (stress-class C-50).

### Structure:

primer	compatible with inner wrap
inner wrap	2 layers (min. 50% overlap)
outer wrap	2 layers (min. 50% overlap)

### Properties:

electrical insulation resistance (DIN 30672)	$> 10^{10} \text{ Ohm} \cdot \text{m}^2$
volume resistivity (ASTM-D 257)	$> 10^{15} \text{ Ohm} \cdot \text{cm}$
adhesion strength to steel (EN 12068, ASTM-D 1000)	
23°C, peel speed 10 mm/min	$\geq 20 \text{ N/cm}$
50°C, peel speed 10 mm/min	$\geq 2.0 \text{ N/cm}$
23°C, peel speed 100 mm/min	$\geq 40 \text{ N/cm}$
50°C, peel speed 100 mm/min	$\geq 4.0 \text{ N/cm}$
adhesion strength tape-to-tape (EN 12068, ASTM-D 1000)	
23°C, peel speed 100 mm/min	$\geq 40 \text{ N/cm}$
50°C, peel speed 100 mm/min	$\geq 4.0 \text{ N/cm}$
Indentation resistance (EN 12068) at 50°C	$\geq 1.0 \text{ mm}$
residual thickness at rod load	
10 N/mm <sup>2</sup> (Rod-Ø 1,8 mm)	
impact resistance	
EN 12068	$\geq 15 \text{ J}$
ASTM-G 14	$\geq 9 \text{ J}$
lap shear resistance at 50°C (EN 12068)	$\geq 5 \text{ N} / \text{cm}^2$

## WRAPPING MACHINES

To apply hand rolls with a 41 mm core diameter. - as per a), the hand wrapping machines must be able to automatically remove the release film from the three - ply tape during application, maintain constant overlap and tape tension.

To apply rolls with **78 mm plastics roll core** diameter - as per c) and d) a sufficient quantity of wrapping machines must be quoted. These machines must be able to automatically remove the release film from the inner wrap tape, maintain constant overlap and give the necessary tape tension.

### 6. Polypropylene Mesh Membrane Tapes ( T 500)

#### I System description:

The XUNDA-T 500 series is cold applied tape for both metallic pipelines and waterproofing works against outdoor bad weathers .

The **PP fiber woven tape** shall be applied after the primer by hand or with a wrapping machine.

Waterproofing-	Pipelines protection
-Waterproofing membrane for basements,substructures and flat deck applications. plazas, bridge, vehicular traffic structures, or parking decks overlaid with an asphalt concrete wearing course. -Tough, high performance waterproof membrane for critical substructures and civil engineering works. -Provides a vapor and waterproof membrane to water excluding structures and protects concrete from attack by aggressive ground salts. -Protection for wall ,floor, roof, corner, basement etc. to against from attack by bad weather, rain, acid alkaline salt	_ Weld joints _ Bends _ Fittings _ Bare pipe lengths _ Pipe rehab and repair -Bare pipe length

#### II Structures

The specification of the tape consists of three layers,

Adhesive layer: Butyl rubber Bituminous Compound

Backing : PP woven fabric cloth

Interleaf: Anti adhesive Film Treated with Silicone



#### III Features

<b>Waterproofing-</b>	<b>Pipes protection</b>
<ul style="list-style-type: none"> <li>-Cold applied.</li> <li>-High resistance to bad weather environment</li> <li>-Good performance itself to keep dry</li> <li>-Easily application &amp; installation.</li> <li>-Suitable for a wide range of temperatures</li> <li>- Compatible primers</li> <li>-Safe, clean</li> </ul>	<ul style="list-style-type: none"> <li>_ Cold applied</li> <li>_ Excellent self adhesion to pipe</li> <li>_ Flexibility provides extra protection at vulnerable areas</li> <li>_ Excellent conformability and consistent uniform thickness</li> <li>_ Easily applied with no special equipment</li> <li>_ Compatible with common pipe coatings</li> <li>_ Excellent resistance to cathodic disbonding</li> <li>_ Wider service temperature range</li> </ul>

#### IV Physical Properties

##### POLYPROPYLENE MESH MEMBRANE TAPES XUNDA-T 500 Series

<b>Item</b>	<b>T 5100</b>	<b>T 5130</b>	<b>T 5150</b>	<b>T 5165</b>
Total thickness (mil)	40mils	50mils	60mils	65mils
Tensile Strength (lb/in)	30(5kg/cm)	35(6.3kg/cm)	39(7kg/cm)	42(7.5kg/cm)
Elongation (%)	400	400	450	500
Length	10 m -100 m			
Width	2",4",6",9"12"			
Peel adhesion To primed pipe (oz/in)	269(3kg/cm)	296(3.3kg/cm)	314 (3.5kg/cm)	340(3.8kg/cm)
To backing (oz/in)	90(1kg/cm)	90(1kg/cm)	117(1.3kg/cm)	135(1.5kg/cm)
Dielectric Strength (KV/mm)	42	42.6	43	43.8
Volume Resistivity (ohm·m)	$2.5 \times 10^{12}$	$2.5 \times 10^{12}$	$2.5 \times 10^{12}$	$2.5 \times 10^{12}$
Water Vapor Transmission Rate (g/m <sup>2</sup> /24h)	0.06	0.05	0.03	0.02
Water Absorptivity (%)	0.1	0.1	0.1	0.1
Application Temperature (°F)	-31-+160 (-35-+70°C)			
Max service temperature (°F)	-40-+250 (-40-+121°C)			

## 7. Polyethylene Bitumen Tapes ( T 600)

### I System description:

The XUNDA-T600 series is Cold applied tape coating system for corrosion protection of Oil, Gas, Petrochemical, Waste Water underground or overhead pipelines and waterproofing.

The **Bitumen tape** shall be applied after the primer by hand or with a wrapping machine

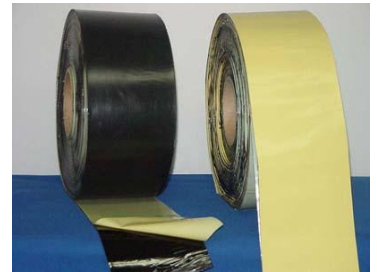
### II Structure

The specification of the tape consists of three layers,

Adhesive:Butyl rubber Bituminous Compound and Adhesion Promoting Resins

Film backing:Special blend of stabilized polyolefin

Interleaf: Anti adhesive Film Treated with Silicone



### III Features:

Heavy duty butyl bitumen compound adhesive

Excellent adhesion to pipe and self

Flexibility provides extra protection at vulnerable areas

Excellent conformability and consistent uniform thickness

Easily applied with no special equipment

Compatible with common pipe coatings

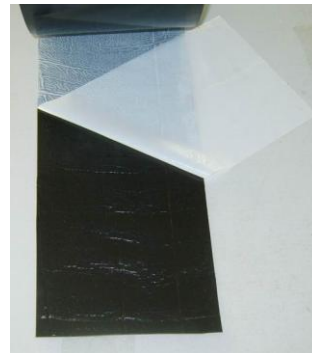
Excellent resistance to cathodic disbonding

Resistant to UV

Can be applied over a wide temperature range

Good conformability and consistent uniform thickness

Cold applied



### IV Physical Properties

#### POLYETHYLENE BITUMEN TAPE XUNDA-T600 Series

PHYSICAL PROPERPTIES	UNIT	TEST METHOD	TYPICAL VALUES			
			40mils	50mils	60mils	65mils
Total thickness	mil	ASTM D 1000	40mils	50mils	60mils	65mils
Tensile Strength	lb/in	ASTM D 1000	30(5kg/cm)	35(6.3kg/cm)	39(7kg/cm)	42(7.5kg/cm)
Elongation	%	ASTM D 1000	400	400	450	500
Length			10 m - 100 m			
Width			50 mm -800 mm			
Peel adhesion To primed pipe	oz/in	ASTM D 1000	269(3kg/cm)	296(3.3kg/cm)	314 (3.5kg/cm)	340(3.8kg/cm)
To backing	oz/in	ASTM D 1000	90(1kg/cm)	90(1kg/cm)	117(1.3kg/cm)	135(1.5kg/cm)
Dielectric Strength	KV/mm	ASTM D 1000	42	42.6	43	43.8
Volume Resistivity	ohm·m	ASTM D 257	2.5 X 10 <sup>12</sup>	2.5 X 10 <sup>12</sup>	2.5 X 10 <sup>12</sup>	2.5 X 10 <sup>12</sup>

Water Vapor Transmission Rate	g/ m2 /24h	ASTM E 96	0.06	0.05	0.03	0.02
Water Absorptivity	%	ASTM D 570	0.1	0.1	0.1	0.1
Application Temperature	F		-31--+160 (-35--+70℃)			
Max service temperature	F		-40--+176 (-40--+80℃)			

### 8.Alu Flashing Tapes (T 700)

#### I Description:

ALUMINUM FOIL TAPE,FLASHING TAPE, PEEL/STICK ROOF TAPE,Alu bitumen tape,Alu waterproof tape,Sealing tape has a heavy aluminum facing together with an extra thick rubberized asphalt based adhesive system.

The **Xunda-T 700 series** is recommended for most types of roofs, windows and flashing problems including:

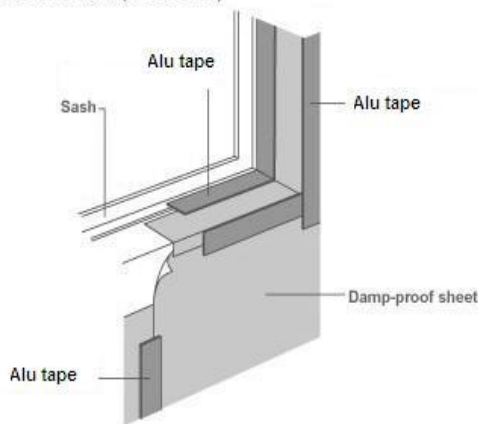
- Trailers
- RV's
- Mobile homes
- Industrial buildings
- Roof awnings
- Truck Trailers
- Chimney Flashing
- Roof to Wall Flashing
- Ridge Flashing
- Window frames of glass, metal, plastic
- Wood including OSB
- Clay and Cement Roof Tiles





### Alu tape

around the window (indoor side)



## II Structure:

The specification of the tape consists of three layers,  
 Adhesive: Flexible modified bitumen adhesive compound.  
 Film backing: Aluminium foil  
 Interleaf: Anti adhesive Film Treated with Silicone

## III Features:

- Aluminum backing is more moldable - it conforms better to irregular surface features - for weather-tight seals
- Excellent For Flashing
- No Messy Sealant
- Stays Flexible
- Aggressive Grip
- Superior Adhesion
- Assure Immediate Leakproof Results
- Easy, Fast Application
- No Harmful VOC's
- Ideal Adhesive/Sealant Thickness

## IV Physical Properties

- Product Data Sheet Total Thickness:30mil,40mil, 60 mils.
- Width:50,75,100,150,225,300,1000 mm
- Length: 10 m
- Adhesive: rubberized asphalt
- Application temperature: -10 - 80 °C

- Temperature resistance:-50 °C - 120°C
- Manufacturers Warranty: 10 Years
- Shelf Life: 12 months

## V Application:

The surfaces to be sealed must be clean, dry and free of loose rust, scale, dust, talc and dirt. All oil, grease, silicone or other contaminates should be first removed with a suitable solvent/cleaner.

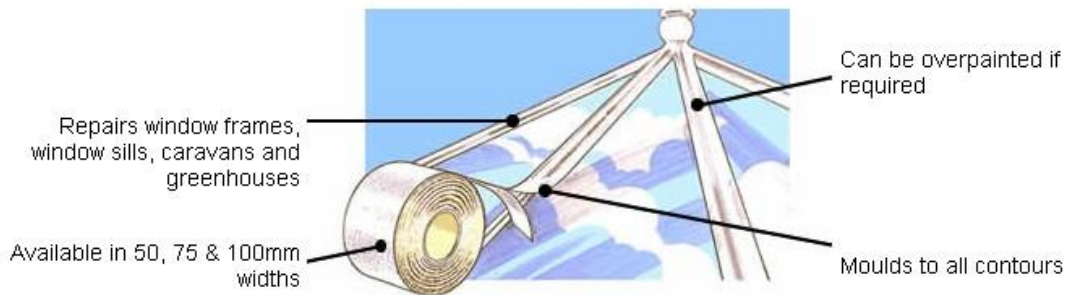
For older roofs use a stiff brush to remove all loose granules and surface elements.

Porous surfaces should be primed with a common asphalt based primer and allowed to dry before Xunda-T 700 is applied.

Install Xunda-T 700 by gradually peeling away the plastic release liner while rubbing the Xunda-T 700 to the surface.

Hint: prevent bubbles under the product by using your hand to squeegee out air by wiping your hand towards the roll as you set the tape to the surface.

Overlap seams or sealing are of application by 3 inches.



## 9.Primer Coating/Liquid adhesive ( P 19& P 27)

### I System description:

The **Liquid adhesive** are recommended for use with only Xunda coating systems. The Liquid adhesive is quickly drying applied to the appropriately prepared pipe surface before application of inner layer tape. The function of Liquid adhesive is to provide a bonding medium between the pipe surface and the inner layer tape. It's suitable for hand brush or machine spray application. It can be applied by hand or machine.

Hand-application :app. 0,2 litre/m<sup>2</sup> pipe surface      Machine application:app. 0,1 litre/m<sup>2</sup> pipe surface

### II Structure

The liquid adhesive consists of butyl rubber and synthetic compound and a solvent-gasoline.

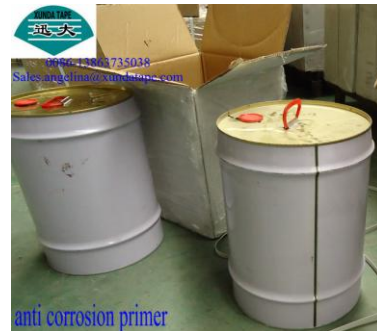
### III Features:

Heavy duty adhesive

Quick fry

Conformable to irregular pipe

Compatible with general coating system



### IV Physical Properties

Properties	Unit	P19	P27
Solid content	%	19	27
Density	Kg/liter	0.77	0.88
Drying thickness	mils	2-3	2-3
Viscosity+23°C (out flow time,4mm nozzle)	sec	35±5	40±5
Flash point	°C	12	26
Drying time	min	5-10	5-10
Color		black	black
Application temperature	°C	5 to 50	5 to 50
Maxinum temperature	°C	-40 to 80	-40 to 80
Package	3.8/15/20/200Liter per drum		

## 10.Polyethylene Heat Shrinkable Tapes ( T 800)

### I System description:

The XUNDA-T 800 is a hand wrapped heat shrinkable tape designed for corrosion protection of straight pipes, fittings, bends, elbows and other irregular configurations.. When heated the backing layer shrinks and the adhesive flows and forms a reliable corrosion protection seal onto metal and adjacent coating surfaces.

The **Polyethylene Heat shrinkable Tape** needs no primer nor patch closure and reduces application time and labour costs.

### II Structure

The specification of the tape consists of three layers,

Adhesive: butyl rubber based hot melt adhesive

Film backing: polyethylene (any color is possible)

Interleaf:Anti adhesive Film Treated with Silicone



### III Features

After heating, formed corrosion protection seal

Strong backing provides outstanding waterproofing effect

High chemical resistance. resists impact, abrasion and ultraviolet light.

Excellent resistance against cathodic disbondment, dielectric breakdown.

Simple Application



### IV Physical Properties

- Product Data Sheet Total Thickness:40mil, 50 mil,60 mil ,65 mils.
- Width:50,100,150,300,400,500,800 mm
- Length: 10 m
- Tensile Strength:35 N/cm
- Elongation:400%
- Adhesion Strength to pipe:30 N/cm
- Application temperature: -10 -60 °C
- Temperature resistance:-50 °C - 80°C
- Shelf Life: 12 months



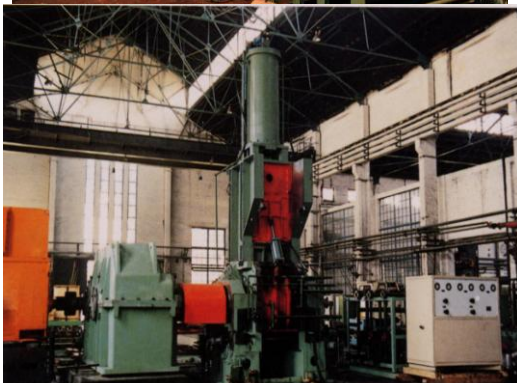
### V Application

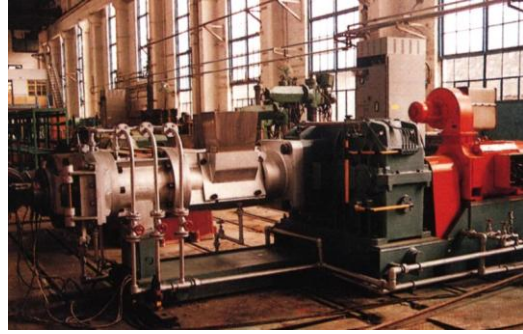
No Special skills, equipments, patch closure nor primer are needed. Its superior flexibility provides easy and reliable application for irregular configurations of fittings, bends and elbows and small diameter of straight pipes.

Wrap spirally the tape over foreign matters-free and preheated surface, beginning at least 25~50mm (1~2) onto pipe coating. Wrap the tape with enough tension to obtain conformability and with minimum 50% of overlapping, while removing the release liner. Warm the end part of the tape and press down firmly. Using a torch, start at the edge of the tape and heat circumferentially around the coated pipe.

Finish off by heating over the entire tape vertically to ensure a uniform adhesion and by using a roller or gloved hands to remove wrinkle and air.

### 13.Production Equipments





## 14. Quality Control

In order to provide high quality products and establish a quality outlook with customers and market as guidance, our company took the lead in passing the ISO9000 quality management system certification in anticorrosive industry. And then our company succeeded in the transformation from ISO9000 quality management system certification to 2000 edition. Then our company passed the ISO14001 environmental management system certification and OHSMS 18001 Health and Safety Management System. Passing these international standards and establishing corresponding management system have provided our company a sound security to manufacture products that conform to international or professional standards.

Measures and contents:

1. Purchase of raw materials: To organize concerned personnel to select, assess and control suppliers of raw materials. Purchasing agents shall select qualified suppliers of corresponding raw materials according to the List of Qualified Suppliers and purchase raw materials in strict accordance with Technical Procurement Standards.
2. Factory-in inspection: Raw material inspectors are responsible for testing each item in accordance with the testing standards for raw materials; conducting sampling test to each type of product for materials of different specifications; and randomly choosing 10% of the materials for sampling test. Only qualified raw materials can be accepted for use.
3. In-production inspection: Each procedure shall be tested by the inspectors of the procedure in question. Then professional quality inspectors are responsible for conducting sampling test. In case of any disqualification, carry out strictly the control procedure of disqualified products. The semi-finished products of the previous procedure must meet the qualification requirements before they are admitted into the next procedure. Disqualified semi-finished products must not be used. Quality inspectors are responsible for submitting samples to laboratory for testing each performance indicator.
4. Warehouse-in inspection: Professional quality inspectors are responsible for sampling 10% of the finished products for inspection. In case of any disqualified product, double the samples until they are qualified.
5. Storage: Mark the products of different specifications and dates of prevent any wrong disposal. Equip the warehouse with moisture proof, damp proof and fire-controlling basic facilities to secure a safe and

appropriate storage environment.

6. Warehouse-out (Delivery) inspection: End product quality inspectors and warehouse keepers are responsible for check the products' specification, quantity, production date and quality issues and testing each performance indicator of the products. In case of any disqualified item, the products are deemed to be disqualified. Any disqualified product will not be allowed for delivery.

All the measures concerning purchase of raw materials, factory-in inspection, in-production inspection, warehouse-in inspection, storage, and warehouse-out (delivery) inspection will prevent disqualified products from entering the markets. In the meantime, the complete and perfect after-sales service and tracking system will secure the wide application of the anticorrosive products manufactured by our company in petroleum and gas pipelines.

### 15.Sales Record

COUNTRY	DELIVERY TIME	DETAILS
BANGLADESH	NOVEMBER-2004	GAS TRANSMISSION COMPANY LIMITED (GTCL) NALKA- BOGRA GAS TRANSMISSION PIPELINE PROJECT
BANGLADESH	NOVEMBER-2005	BAKHRABAD GAS SYSTEMS LTD. SEMUTANG OILFIELD PIPELINE PROJECT
SUDAN	MARCH-2006	CHINA ENERGY COATING DEVELOPMENT CO.,LTD.
KAZAKHSTAN	MARCH-2006	CHINA PETROLEUM FIRST PIPELINE CONSTRUCTION COMPANY
INDONESIA	MARCH-2006	PT KI***NUSANTARA
KUWAIT	MARCH-2006	CNPC SERVICE & ENGINEERING LTD. OILS OF KUWAIT OIL GATHERING STATION
U.S.A	APRIL-2006	NORTHERN AIR PRODUCTS (TIANJIN) CO., LTD.
POLAND	MAY-2006	THE POLISH OIL AND GAS MINING, PGNIG
KAZAKHSTAN	JUNE-2006	CHINA PETROLEUM ENGINEERING CONSTRUCTION CORP.--SANANUOER THIRD GAS PLANT
ARGENTINA	FEBRUARY-2007	CHINA METALLURGICAL GROUP
BANGLADESH	MARVH-2007	TGT & D CO.,LTD
TURKEY	APRIL-2007	ÜN***PACKAGING MANUFACTURING CO., LTD



UZBEKISTAN	MAY-2007	XINJIANG PETROLEUM ADMINISTRATION BUREAU *** CO
SINGAPORE	JUNE-2007	F*** LLC.
PAKISTAN	AUGUST-2007	S*** GROUP.,LTD
BANGLADESH	SEPTEMBER-2007	JALALABAD *** SYSTEM LTD
ECUADOR	OCTOBER-2007	K*** SERVICE CIA. LTDA. ECUADOR DRAINAGE PIPE PROJECT
KAZAKHSTAN	NOVEMBER-2007	CHINA PETROLEUM ENGINEERING CONSTRUCTION CO
KAZAKHSTAN	DECEMBER-2007	XINJIANG PETROLEUM ADMINISTRATION BUREAU OF FOREIGN TRADE AND ECONOMIC CORPORATION
BANGLADESH	AUGUST-2008	A***TRADING
IRAQ	NOVEMBER-2008	QATAR BEIJING OFFICE
BOLIVIA	FEBRUARY-2009	STI *** LA PAZ
KUWAIT	MAY-2009	RE*** TRADING CO.LTD
INDONESIA	MAY-2009	K*** SYNERGY PTE LTD
VIETNAM	JUNE-2009	CONG TY TNHH TM & CN B.A.C.AU
U.K	JULY-2009	OLKY TECHNOLOGY EQUIPMENT CO., LTD
TURKEY	AUGUST-2009	YORUM*** LTD.STI.
KUWAIT	AUGUST-2009	RE*** TRADING CO.LTD
AUSTRALIA	SEPTEMBER-2009	MOBILARM LIMITED
NABLUS	DECEMBER-2009	H*** CONTRACTING CO. PALESTINE
AUSTRALIA	DECEMBER-2009	C*** METALS
SRI LANKA	JANURARY-2010	C*** PETROLEUM CORPORATION
PAKISTAN	FEBURARY-2010	F*** COMPANY LTD
COSTA RICA	MARCH-2010	VA*** CENTROAMERICA, S.A.
KUWAIT	APRIL-2010	RE*** TRADING CO.LTD
PORTUGAL	MAY-2010	EC***, LDA.
BOLIVIA	MAY-2010	S***, BOLIVIA LA PAZ
HONDURAS	MAY-2010	HONDURAS *** DE R.L

INDONESIA	MAY-2010	A*** FREIGHT AND TRADING PTE LTE (SINGAPORE)
VIE TNAM	MAY-2010	DU***TRADING & ENGINEERING CO., LTD
BANGLADESH	MAY-2010	JALALABAD GAS TRANSMISSION & DISTRIBUTION SYSTEM
INDONESIA	JUNE-2010	PT. CE*** KONTRINDO
AUSTRALIA	JUNE-2010	C*** METALS
BANGLADESH	JUNE-2010	BAKHRABAD GAS SYSTEMS LIMITED
MALAYSIA	JULY-2010	T*** ENGINEERING & TRADING SDN. BHD
INDONESIA	JULY-2010	PT. HO***I INDONESIA MEDCO PROJECT
INDIA	NOVEMBER-2010	O** LIMOTED
IRAN	NOVEMBR-2010	N** OIL COMPANY
MALAYSIA	JULY-2010	LIAN HUA HARDWARE SND BHD
MADAGASCAR	AUGUST-2010	QUI*** MADAGASCAR
SRI LANKA	DECEMBER-2010	BEIJING EURO TECHNOLOGY CO.,
ISRAEL	JANURARY-2011	M** LTD
USA	JANURARY-2011	U**LTD
ECUADOR	JANUARY-2011	PROM*** SA
ECUADOR	JANUARY-2011	BIOA*** SA
BANGLADESH	MARCH-2011	BAKHRABAD GAS SYSTEMS LIMITED
BANGLADESH	MARCH-2011	NINGBO YUXI CO.LTD BANGLADESH GAS PIPELINE
VIE TNAM	MARCH-2011	N**,LTD.
ECUADOR	MARCH-2011	FA*** S.A
PHILIPPINES	MARCH-2011	U** INDUSTRY**LTD
CANADA	MARCH-2011	A****GROUP LTD
TURKEY	APRIL-2011	T& *** SYSTEMS CO., LTD.
IRAN	APRIL-2011	LO*** G***AR
SINGAPORE	APRIL-2011	ZI*** EQUIPMENT PTE LTD
POLAND	MAY -2011	TERM***UM SP. Z O.O.


ECUADOR	MAY -2011	PETROCOMPANY S.A.*****
GERMANY	JUNE-2011	RECK*** LIMITED
SWEDEN	FEB-2012	LEX***L AB
UKRAINE	APR-2012	SHALYMI***V PAV***TANTYNOVY
KAZAKHSTAN	APR- 2012	"PROM***LMATY" LLP
NEW ZEALAND	MAY-2012	ICC ***RVICE
DUBAI	JUNE-2012	A*** EB***IM
INDONESIA	JUNE-2012	A*** PER***A INDAH
AUSTRALIA	JULY-2012	PCS
BURMA	JULY-2012	PUN***YD LIMITED (MYANMAR)
UAE	JULY-2012	G***PIPELINES INSTALLATION & SUPPLY CO. LLC.
TURKEY	AUGUST-2011	T& *** SYSTEMS CO., LTD.
YEMEN	AUGUST-2012	N*** TRADE.&OILFIELD SERVICES
AUSTRALIA	JULY TO DEC. 2012	PCS
UZBEKISTAN	AUG. 2012	TURM*** GAS PIPELINE
ECUADOR	SEP 2012	ORT***ET S.A.
SPAIN	SEP 2012	EC***PE
UKRAINE	OCT. 2012	EVRO*** PL*S PIPELINE
MYANMAR	NOV. 2012	PUNJ LL*** LIMITED
VENEZUELA	DEC. 2012	POLYKEM PIPELINE COATING SYSTEM
IRAN	JAN.2013	SH*** COMPANY
GUATEMALA	FEB.2013	DISTRI****I,S.A.
KUWAIT	MAR.2013	REZ***CO.,LTD
INDIA	MAR.2013	S***AN PROJECTS
TURKEY	APR.2013	FORM****Tic.Ltd
CANADA	APR.2013	Adv*** Corrosion *** Inc.
UGANDA	MAY.2013	K*** TRADING COMPANY LTD

POLAND	MAY.2013	Term*** . z o.o.
PALESTINE	MAY.2013	HIN****LTD
KUWAIT	JUNE.2013	RE****TRADING LTD
CAMBODIA	JUNE.2013	KHL**** LTD
VIETNAM	JUNE.2013	AP*** Vietnam., J**C
INDONESIA	JULY.2013	PT.MA***KTI AGR***RI
INDIA	JULY.2013	S***AN PROJECTS
INDONESIA	JULY.2013	PT. KOTA*** INTERNUSA
Kazakhstan	AUG.2013	I*** GROUP
KENYA	AUG.2013	Sa*** Construction Company Ltd
INDONESIA	AUG.2013	PT.PET****D***
YEMEN	SEP.2013	Nash**** Trade.&Oilfield Services
UZBERKISTAN	SEP.2013	OAO****
Philippines	OCT.2013	Ge*** Chemicals and Resin Co*** tium Inc
UZBERKISTAN	OCT.2013	OAO****
IRAN	NOV.2013	SH*** COMPANY
BANGLADESH	NOV.2013	NAI***CORP***
ECUADOR	DEC.2013	PETROCOMPANY S.A.*****
UKRAINE	DEC. 2013	EVRO*** PL*S PIPELINE
AUSTRALIA	DEC.2013	PCS
UZBERKISTAN	DEC.2013	PR***ICK OVERSEAS HOLDING S.A
PHILIPPINES	DEC.2013	GENERAL CH***CAL S AND R**IN CO****M INC
ECUADOR	JAN.2014	PE**O COMPANY
BOLIVIA	JAN.2014	FELIZ SA***ENTO
BOLIVIA	JAN.2014	PEDRO FE***RO QUISPE
CAMBODIA	JAN.2014	T*** TRADING
UZBERKISTAN	FEB.2014	"CURZON CONS***NTS CORP

BANGLADESH	FEB.2014	NAINA CORPORATION
KUWAIT	FEB.2014	RE***T TRADING CO. LTD
IRAN	FEB.2014	SI*****BING*****MENT
KUWAIT	MAR.2014	KHA**** COMPANY
UZBERKISTAN	MAR.2014	GEO**K SERVICE LTD
INDIA	MAR.2014	ALL***** LTD MOROCCO
PAKISTAN	MAR.2014	CPGCL
INDONESIA	APR.2014	PT.BE****ADANA
CANADA	APR.2014	CUSTO***** LTD
EGYPT	APR.2014	GA***TRADING
BOLIVIA	MAY.2014	PEDRO FEBRERO QUISPE
UZBERKISTAN	AUG.2014	GEO***K SERVICE LTD
SPAIN	AUG 2014	EC***PE
UKRAINE	SEP. 2014	EVRO*** PL*S LTD
KAZAKHSTAN	SEP.2014	I*** GROUP
INDONESIA	SEP.2014	PT PE***
INDONESIA	OCT.2014	PT.B** WI***DANA
KUWAIT	OCT.2014	RE***T TRADING CO. LTD
UAE	OCT.2014.	PET****LLP
PAKISTAN	NOV.2014	OGDCL
UZBERKISTAN	NOV.2014	GLOBAL A***DART <sup>l</sup> LLC
SOUTH AFRICA	DEC.2014	THA*** TRADING
UKRAINE	DEC. 2014	EVRO*** PL*S LTD

## 16.Test Report

### Inner tape



### TEST REPORT

**No. : SM101115152**  
**Date : Dec. 1,2010**  
**Page: 1 of 8**

JINING XUNDA PIPE COATING MATERIALS CO., LTD.  
 JINING CITY, SHANDONG PROVINCE CHINA


The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name	: PIPE INNER-WRAP TAPE
Sample No.	: SM101115152
Product Specification	: 4"×25mil
Product or Lot No.	: XUNDA-T
Test Required	: Rate of Water Vapor Transmission, Volume Resistivity, Dielectric Strength, Total thickness, PE backing thickness, Butyl rubber adhesive thickness, Tensile strength, Yield strength, Elongation at break, Adhesion to primed steel, Water absorption
Date of Receipt	: Nov. 23,2010
Test Period	: Nov. 23,2010 to Dec. 1,2010
Test result(s)	: For further details, please refer to the following page(s) ***** To be continued*****

Signed for SGS-CSTC Standards  
 Technical Services (Shanghai) Co., Ltd.

*Joshua*  
 Joshua Zhu  
 Authorized signatory

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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
 Testing Laboratory

No.89, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 www.cn.sgs.com  
 中国·上海·浦东康桥东路1159弄69号 邮编:201319 t(86-21) 61196300 f(86-21) 68183122/68183920 e sgs.china@sgs.com

**SHML 221304**

Member of the SGS Group (SGS SA)

Outer tape



## TEST REPORT

**No. : SM101115153**  
**Date : Dec. 1,2010**  
**Page: 1 of 8**

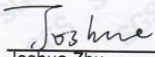
JINING XUNDA PIPE COATING MATERIALS CO., LTD.  
 JINING CITY, SHANDONG PROVINCE CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:


Sample Name	: PIPE OUTER-WRAP TAPE
Sample No.	: SM101115153
Product Specification	: 4" × 25mil
Product or Lot No.	: XUNDA-T
Test Required	: Volume Resistivity, Dielectric Strength, Rate of Water Vapor Transmission, Total thickness, PE backing thickness, Butyl rubber adhesive thickness, Tensile strength, Yield strength, Elongation at break, Adhesion to primed steel, Water absorption
Date of Receipt	: Nov. 23,2010
Test Period	: Nov. 23,2010 to Dec. 1,2010
Test result(s)	: For further details, please refer to the following page(s)

\*\*\*\*\* To be continued\*\*\*\*\*

Signed for SGS-CSTC Standards  
 Technical Services (Shanghai) Co., Ltd.

  
 Joshua Zhu  
 Authorized signatory

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SGS Technical Services (Shanghai) Co., Ltd.  
 Testing Center

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 中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t (86-21) 61196300 f (86-21) 68183122/68183920 e sgs.china@sgs.com

**SHML 221312**

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## Joint tape



## TEST REPORT

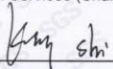
No. : SM110100926  
 Date : Feb. 1,2011  
 Page: 1 of 7

JINING XUNDA PIPE COATING MATERIALS CO., LTD  
 JINING CITY SHANDONG PROVINCE CHINA


The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name	: PIPE JOINT-WRAP TAPE
Sample No.	: SM110100926
Product Specification	: 4" × 31.5mil
Product or Lot No	: XUNDA-T
Test Required	: Volume Resistivity, Dielectric Strength, Total thickness, PE backing thickness, Butyl rubber adhesive thickness, Tensile strength, Yield strength, Elongation at break, Adhesion to primed steel, Water vapour transmission rate, Water absorption
Date of Receipt	: Jan. 20,2011
Test Period	: Jan. 20,2011 to Feb. 1,2011
Test result(s)	: For further details, please refer to the following page(s) ***** To be continued*****

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 Technical Services (Shanghai) Co., Ltd.

  
 Kelly Shi  
 Authorized signatory

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**SHML 262642**

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Member of the SGS Group (SGS SA)





DVGW-Forschungsstelle  
am Engler-Bunte-Institut  
des Karlsruher Instituts  
für Technologie **KIT**

07<sup>th</sup> July 2011  
IIG/bu-jk  
Expert: Budde  
File-No.: 10/323/5180/1  
Application-No.: 10-0565-W

## R E P O R T

Type test  
of the corrosion protection coating system  
"XUNDA-T280/XUNDA-T480"

according to DIN EN 12068 „External organic coatings for the corrosion protection of buried or immersed steel pipelines used in conjunction with cathodic protection - Tapes and shrinkable materials“ (March 1999)

### Applicant:

Jining Xunda Pipe Coating Materials  
Co., Ltd.

Ershilipu Industry Park, Rencheng  
District, Jining, Shangdong,  
P.R.China



(This report includes 4 pages and 4 attachments)

Page 2 of 4  
Test report File-No.: 10/323/5180/1  
Application-No.: 10-0565-W

### **I. General**

The company Jining Xunda Pipe Coating Materials Co., Ltd, Jining, Shandong, China, entrusted the DVGW-Forschungsstelle -Test Laboratory Gas- at the Engler-Bunte-Institut of the Karlsruher Institute of Technology (KIT) with testing of the corrosion protection coating "XUNDA-T280/XUNDA-T480" in combination with the primer "XUNDA-P29" according to DIN EN 12068, stress-class C-50 column 2.

Samples required for testing have been placed at the disposal of the test laboratory at 15.11.2010.

### **II. Test basis**

Basis for testing is DIN EN 12068 "External organic coatings for the corrosion protection of buried or immersed steel pipelines used in conjunction with cathodic protection - Tapes and shrinkable materials" (March 1999).

### **III. Description of the coating system**

After thorough cleaning the pipe surface and the adjacent factory coating are coated with the primer "XUNDA-P29". After drying the tape "XUNDA-T480" is wrapped around the pipe with 50 % overlap (2 layers). "Xunda-T280" is wrapped on top of the inner wrap also 50 % overlap (resulting in 4 layers in total). The tape "XUNDA-T480", with a total thickness of  $\approx 0,86$  mm, consists of a PE-carrier film (thickness  $\approx 0,30$  mm), which is coated with butyl rubber on both sides, while the tape "XUNDA-T280", with a total thickness of  $\approx 0,90$  mm, consists of a PE-film (thickness  $\approx 0,45$  mm), coated with the adhesive only on one side. Further information is given in manufacturers literature and recommendations for application. According to manufacturers information the corrosion protection system is compatible with polyethylene (PE) and epoxy (EP) factory coatings.

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The standard indication of the coating system is:

Coating EN 12068-C 50, column 2

#### **IV. Testing**

Testing till now was carried out by samples provided by the manufacturer, according to the annexes referred to in table 1 and 2 of DIN EN 12068 under the test conditions defined for a coating system EN 12068-C 50, column 2.

#### **V. Attachments**

This test report contains the following one-sided annexes:

Attachment 1 and 2: Test results  
Attachment 3: Measuring tools and test equipment

#### **VI. Summary**

The corrosion protection system "XUNDA-T280/XUNDA-T480", with the primer "XUNDA-P29" of the company Jining Xunda Pipe Coating Materials Co., Ltd, Jining, Shandong, China, fulfils all requirements for coating systems of stress-class C, column 2 according to DIN EN 12068 (March 1999) with operating temperatures up to 50 °C as far as they has been tested according to attachment 1 and 2. The system is compatible with polyethylene (PE) and epoxy (EP) factory coatings.

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A duplication of the test report in parts requires the written approval of the test laboratory.

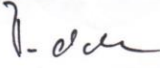
Only the complete test report is allowed to be duplicated and handed over.

DVGW-FORSCHUNGSSTELLE  
Test Laboratory Gas

(Head of test laboratory)

(Expert)

  
(Dipl.-Ing. J. Stenger)

  
(B. Budde)

## 17. Honor Certificates

ISO 9001



## Certificate of Approval

Certificate No.: 10114Q15242ROM

*Awarded to*

### Jining Xunda Pipe Coating Material Co., LTD.

Organization Code Certificate No.:56140734-5

Registration Add.:Hu Ying Cun Nian Li Pu Zhen Rencheng District Jining City Shandong Province,272053  
Office Add.:Industrial Park Nian Li Pu Zhen Rencheng District Jining City Shandong Province,272053  
Production Add.: Industrial Park Nian Li Pu Zhen Rencheng District Jining City Shandong Province,272053

*Beijing ZhongLianTianRun Certification Center (ZLTR) certify that the Quality Management System of the above organization has been assessed and found to be in accordance with the requirements of the standard:*  
**ISO9001: 2008**

#### SCOPE OF CERTIFICATION/REGISTRATION Processing and sales pipeline anticorrosion tape

*Subject to operation conditions in requirements conformity with Quality Management System, This Certificate is valid for a period of three years only,  
Date from: Oct 10th,2014 To: Oct 9th,2017*

*The effectiveness of this Certificate shall be Validated by periodic surveillance audit of ZLTR for maintenance. This Certificate will not be in force unless qualified identification is stuck there under by ZLTR within appropriate time limit.*

2015-10-06	Stuck	2016-10-06	Stuck
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Information of this certificate can be found on the official website of Certification and Accreditation Administration of the People's Republic of China (<http://www.cnca.gov.cn>) and the official website of Beijing Zhonglian Tianrun Certification center (<http://www.zltr.com.cn>)



**Beijing Zhongliantianrun Certification Center**

Room 2601, 2602, 2603, 26th Floor, 2nd Unit, Block 1, No.4 Yard, Oivang Road, Chaoyang District, Beijing, P.R. China 100102

ISO 14001



ISO 18001







## Alibaba.com Assessed Supplier



### Assessment Report

Presented to

**Jining Xunda Pipe Coating Material Co., Ltd.**

济宁迅大管道防腐材料有限公司

Gold Supplier & Assessed Company Relationship:	<input checked="" type="checkbox"/> Self-owned <input type="checkbox"/> Wholly Owned <input type="checkbox"/> Shareholder/Partner <input type="checkbox"/> Kindred between Owners <input type="checkbox"/> Cooperation Partner
Company Address	Ershilipu Industrial Park, Rengcheng District, Jining City, Shandong Province, China
City / Country:	Jining, China
Consigner of Assessment:	Alibaba
Gold Supplier Member ID:	xundatape
Gold Supplier Company Name:	Jining Xunda Pipe Coating Material Co., Ltd.
Contact Person:	Mr. Xianghua Yao
Phone Number:	0086-537-2596111, 0086-537-2528111
Fax Number:	0086-537-2299111
Email:	sales@xundatape.com
Website Address (URL):	http://xundatape.en.alibaba.com

Service Provided by Bureau Veritas Certification  
 Report No.: 9369262\_P+T



Assessment Report by TUV

## Alibaba.com Assessed Supplier



AWWA member certificate



American Water Works  
Association

The Authoritative Resource on Safe Water®

Membership NO. 01126045

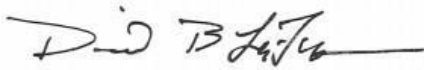
Hereby certifies that

## Jining Xuda Pipe Coating Materials CO., Ltd

is a member of American Water Works Association  
and is entitled to all the rights and privileges thereof.

Member Since

June 2011



Executive Director



### 18. Cold applied coating tape Application Instruction

#### 1. Steel pipe pretreatment

1.1 Keeping the pipe external surface clean and dry. Remove the dust, oil, welding slag, burrs, grease and dirt on pipe surface.

1.2 Pipe surface prepared up-to a level of Sa 2 or 2 ½ or St 2/st by sand



blasting.

1.3 After the pre-cleaning operations, the pipe surface not smooth which may sharp the pipe coating should be burnished, the abrasive dust attached on the pipe surface should also be cleaned clearly.

1.4 If flash rusting occurs, the surfaces must be re-cleaned by blasting as above.



## 2.Coating &Wrapping application

2.1 Coating &wrapping application consist of primer application, inner tape coating, outer tape coating.

2.2 weather condition

2.2.1 When the wind&sand was strongly, when the sand and dust covered on the surface of pipe, primer, tape etc., should not be brushing primer and wrapping the tape if there is no reliable preventive measures.

2.2.2 When air humidity is greater than 80%, or when the pipe surface is wet from any precipitation, should not be brushing primer and wrapping tape.



## 3.Brushing primer

3.1 The brushing time should be control within 6 hours between the pipe surface treatment and brush primer. During brush primer, pipe surface should be free from damp and pollution. If the pipe surface rust return, should be re-pre-cleaned.

3.2 The primer should be mixed evenly in the container before brushing.

3.3 The primer should be applied uniformly, without any sags, floods, runs, drips, bare spot and over spray, such as leakage brush, clot, streaming. The primer coat DFT shall not be less than 25-50micron(1-2mils)

3.4 After the primer dried, then wrapping the tape (It usually takes 3 to 5 minutes.).

3.5 Consumption:

machine application approx. 0,1 litre/m<sup>2</sup>

hand application approx. 0,2 litre/m<sup>2</sup>

## 4.Wrap tape application

4.1 Wrap tape application consists of hand application and machine application.

4.2 The tape applied temperature must be above 5 degrees, the coating construction temperature shall be more than -5 degrees as better.

4.3 The tape shall be spirally applied, minimum overlap shall not be less than 50%.

4.4 When a new roll of tape started, the ends shall be located to ensure the continuity of wrap tape using the same method of application.

4.5 Outer tape applied method is the same as above.



## 5.Cutbacks

Cutbacks shall be a minimum 6 inches (150mm) from the ends of each pipe. The cutbacks may be tapered or straight edge for the total thickness of the coating.





### 19.Requirement Specifications

Pipe Size		Tape width
DN Inch	ISO mm	mm
1	34	30
2	60	30
2.5	76	50
4	114	50
8	219	50
10	273	100
14	356	100
20	508	100
32	813	150
40	1016	150
48	1219	150

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60	1524	150
≥64	≥1626	230 or 300

## 20.After-sales Service

All products purchased in our company are guaranteed to keep in good repair for one year. Additionally, our company provides technical support and fittings for life. After-sales service isn't restricted by time and we will assign technical personnel to solve your problems immediately after receiving telephone, fax, Email and hear feedback idea of users and deal with them in time. If you are caught in some problems when using our products, welcome to contact us at any time. We will try our best to help you complete the project.

**Customer needs**

**Our pursuit**

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[www.xundatape.com](http://www.xundatape.com)

**P.S The information given on all of data sheet is intended as a general guide only and should not be used for specification purposes. We believe the information to be accurate and reliable but do not guarantee it. We assume no responsibility for the use of this information. Users must, by their own tests, determine the suitability of the products and information supplied by us for their own particular purposes. No patent liability can be assumed.**