JINING QIANGKE PIPE ANTICORROSION MATERIALS CO., LTD

PIPELINE COATINGS

The World Leader in Technology,

Quality and Service



POLYKEN Coating System

POLYKEN Reconditioning coatings



POLYKEN Line Travel Coating System



POLYKEN Plant Coating System



POLYKEN Pipeline accessory products

THE HIGHEST QUALITY ANTI-CORROSION COATING SYSTEMS FOR UNDERGROUND PIPELINES

About Us

- We are the most largest manufacturers of Polyethylene Tape in China for the Corrosion Control of pipelines and specialty applications.
- A 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



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

- Global presence in oil, gas and water industries
- 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
- Qualified to ASTM test methods, DIN 30672, EN 12068 Standards, American Water Standards (AWWA) C 209 & 214, Indonesian Standards (PERTAMINA), Iran Standards-NIGC & IGS, China Standards
- Technology/R&D programs for new products and new processes
- 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
- Just-in-Time delivery on a global basis
- Achieving and exceeding Client requirements for products, packaging and shipment expectations
- Meetings 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)
- Primers
- *3ply double sided coating system(3ply+2ply)*
- Wrapping Machines
- Joint tape-with or without release liner
- Special repair products &heavy duty tape
- High temperate tape

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

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

Technology

- Calendering process for the lamination of the tape and outer-wrap produce
- Calenering 2 Ply and 3 Ply Polyethylene tape systems within 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

1、POLYKEN 980 Anticorrosion Tapes(Inner Wrap)



The Valuable Solution For Underground Pipe Coatings

POLYKEN 980&955 Coating System For Pipeline

System Description

The POLYKEN 980,955 is a multilayer system used for the protection of steel pipelines. POLYKEN 1019,1027, Liquid Adhesives can be used as primers for this system. In addition to serving as primers, these liquidadhesives themselves represent an anticorrosion layer and provide a uniformly smooth contact surface to promote high adhesion of the coating system to the pipe. They are designed for machine or brush application and formulated with stress-corrosion cracking inhibitors. The Anti-Corrosion layer POLYKEN 980 is engineered to assure a high bond to the primed surface with excellent conformability characteristics. The mechanical protection layer POLYKEN 955, achieves a complete bond to the POLYKEN 980 inner layer, providing maximum handling and in-service protection for the coating system. The adhesives in these and all POLYKEN tape systems contain proven anti-microbial additives. The POLYKEN 980/955 can also be used for ductile iron pipes, in this case the use of 1027 primer is recommended.

Features

-Resistant to soil stress

- Cold applied

coating systems

- Excellent adhesion to pipe and self
- -Low cathodic protection

-Uniform coating thickness -Compatible with all pipe diameters and generic plant

- -Long-term in-ground performance
- Serve for low-high temperatures
- -Qualified ASTM D1000,AWWA C 214,EN 12068 standards

Structure

Backing :Special blend of stabilized polyethyleneAdhesive :Butyl rubber and Adhesion Promoting ResinsColor:Black



PE carrier film (Black or White) Co-Extruded butyl rubber with PE Butyl Rubber adhesive

Properties

Product Properties	Test method	Typical Value			
		POLYKEN980-15	POLYKEN980-20	POLYKEN980-25	POLYKEN980-30
Total Thickness		15mil(0.381mm)	20mil(0.508mm)	25mil(0.635mm)	30mil(0.762mm)

Backing of PE film		9 mils(0.229 mm)	12mil(0.305mm)	13mil(0.330mm)	10mil(0.254mm)
Butyl Rubber Adhesive		6 mils(0.152 mm)	8mil(0.203mm)	12mil(0.305mm)	20mil(0.508mm)
Tensile Strength	ASTM D1000	40 N/cm	55 N/cm	62 N/cm	70 N/cm
Elongation	ASTM D1000	300%	330%	350%	400%
Peel Adhesion to Primed Steel	ASTM D1000	24.5 N/cm	25 N/cm	26.5 N/cm	30 N/cm
Water Vapor Transmission Rate	ASTM E 96	0.10g/m ²	0.10g/m ²	0.09g/m ²	0.08g/m ²
Water absorption after 1 day,At+23℃	ASTM D570	0.10%	0.10%	0. 08%	0. 06%
Volume Resistivity	ASTM D 257	2.0 x 10 ¹⁵ ohm.cm	2.5 x 10 ¹⁵ ohm.cm	2.5 x 10 ¹⁵ ohm.cm	2.5 x 10 ¹⁵ ohm.cm
Dielectric Strength	ASTM D149	30 kV	35 kV	42kv	43kv

Ordering Information

POLYKEN 980 and 955 tape coatings are in roll form.

Eg.: POLYKEN980-20 BLK 6"×400'

POLYKEN 980	Product Model No.	Standard ordering options
20	Total tape thickness in mils	15mils(0.381mm),20mils(0.508mm),25mils(0.635mm),30mils(0.762mm)
BLK	Tape backing color	Black (BLK)
6	Tape width in inches	2"(50mm),,4"(100mm),6"(150mm),9"(228mm),12"(305mm)18" (457mm)
400	Tape roll length in feet	100ft(30M),200ft(61M),400ft(122M),600ft(183M),800ft(244M)

Eg.: POLYKEN955-20 WHI 6"×400'

POLYKEN 955	Product Model No.	Standard ordering options
20	Total tape thickness in mils	15mils(0.381mm),20mils(0.508mm),25mils(0.635mm),30mils(0.762mm)
WHI	Tape backing color	White (WHI)
6	Tape width in inches	2"(50mm),,4"(100mm),6"(150mm),9"(228mm),12"(305mm)18" (457mm)
400	Tape roll length in feet	100ft(30M),200ft(61M),400ft(122M),600ft(183M),800ft(244M)

(Width of Coating in inches) ×(Area of pipe in square feet)*

-----=Squares **of Coating Required

(Width of coating in inches-Overlap in inches) $\times 100$

*Area of pipe in square feet=(Diameter in inches)/12×3.1416×(Length in feet)

****One square=One hundred square feet=9.29 square meters**

(Width of Coating in mm) × (Area of pipe in square meter)*

-----=Square meter of Coating Required

(Width of coating in mm-Overlap in mm)

*Area of pipe in square meter=(Diameter in mm)/1000×3.1416×(Length in meter)

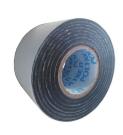
2、POLYKEN 955 Mechanical Protection Tapes (Outer Wrap)

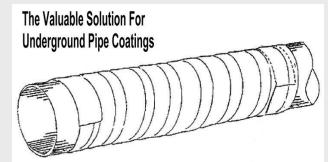












POLYKEN 980&955 Coating System For Pipeline

System Description

The POLYKEN 980,955 is a multilayer system used for the protection of steel pipelines. POLYKEN 1019,1027, Liquid Adhesives can be used as primers for this system. In addition to serving as primers, these liquid adhesives themselves represent an anticorrosion layer and provide a uniformly smooth contact surface to promote high adhesion of the coating system to the pipe. They are designed for machine or brush application and formulated with stress-corrosion cracking inhibitors. The Anti-Corrosion layer POLYKEN 980 is engineered to assure a high bond to the primed surface with excellent conformability characteristics. The mechanical protection layer POLYKEN 955, achieves a complete bond to the POLYKEN 980 inner layer, providing maximum handling and in-service protection for the coating system. The adhesives in these and all POLYKEN tape systems contain proven anti-microbial additives. The POLYKEN 980/955 can also be used for ductile iron pipes, in this case the use of 1027 primer is recommended.

-Compatible with all pipe diameters and generic plant

-Qualified ASTM D1000,AWWA C 214,EN 12068 standards

- Cold applied

coating systems

-Uniform coating thickness

Features

- -Resistant to soil stress
- Excellent adhesion to pipe and self
- -Low cathodic protection
- -Long-term in-ground performance
- Serve for low-high temperatures

Structure

Backing	Special blend of stabilized polyethylene					
Adhesiv	e : Butyl rubber and Adhesion Promoting Resins					
Color	:Black or White					



PE carrier film (Black or White) Co-Extruded butyl rubber with PE Butyl Rubber adhesive

Properties

Product Properties	Test method	Typical Value				
		POLYKEN 955-15	POLYKEN 955-20	POLYKEN 955-25	POLYKEN 955-30	
Total Thickness		15mil(0.381mm)	20mil(0.508mm)	25mil(0.635mm)	30mil(0.762mm)	
Backing of PE film		10mils(0.254 mm)	15mil(0.381mm)	20mil(0.508mm)	25mil(0.635mm)	
Butyl Rubber Adhesive		5 mils(0.127 mm)	5mil(0.127mm)	5mil(0.127mm)	5mil(0.127mm)	
Tensile Strength	ASTM D1000	50N/cm	60N/cm	70 N/cm	80 N/cm	
Elongation	ASTM D1000	300%	350%	350%	450%	
Peel Adhesion to Primed Steel	ASTM D1000	24 N/cm	25 N/cm	26.5 N/cm	33 N/cm	
Water Vapor Transmission Rate	ASTM E 96	0.10g/m ²	0.10g/m ²	0.08g/m2	0.06g/m2	
Water absorption after 1 day,At+23°C	ASTM D570	0.10%	0.10%	0. 08%	0. 06%	
Volume Resistivity	ASTM D 257	2.0 x 10 ¹⁵ ohm.cm	2.5 x 10 ¹⁵ ohm.cm	2.6 x 1015 ohm.cm	2.6 x 1015 ohm.cm	
Dielectric Strength	ASTM D149	30 kv	36 kv	43 kV	45 kV	

Ordering Information

POLYKEN 980 and 955 tape coatings are in roll form.

Eg.: POLYKEN 980-20 BLK 6"×400'

POLYKEN 980	Product Model No.	Standard ordering options
20	Total tape thickness in mils	15mils(0.381mm),20mils(0.508mm),25mils(0.635mm),30mils(0.762mm)
BLK	Tape backing color	Black (BLK)
6	Tape width in inches	2"(50mm),,4"(100mm),6"(150mm),9"(228mm),12"(305mm)18" (457mm)
400	Tape roll length in feet	100ft(30M),200ft(61M),400ft(122M),600ft(183M),800ft(244M)
Eg.: POLTKEN	955-20 WHI 6"×400'	
POLYKEN 955		Standard ordering options
C C		Standard ordering options 15mils(0.381mm),20mils(0.508mm),25mils(0.635mm),30mils(0.762mm)
POLYKEN 955	Product Model No.	
POLYKEN 955 20	Product Model No. Total tape thickness in mils	15mils(0.381mm),20mils(0.508mm),25mils(0.635mm),30mils(0.762mm)

(Width of Coating in inches) ×(Area of pipe in square feet)*

-----=Squares **of Coating Required

(Width of coating in inches-Overlap in inches) ×100

*Area of pipe in square feet=(Diameter in inches)/12×3.1416×(Length in feet)

**One square=One hundred square feet=9.29 square meters

(Width of Coating in mm) ×(Area of pipe in square meter)*

-----=Square meter of Coating Required

(Width of coating in mm-Overlap in mm)

POLYKEN[®] Jining Qiangke Pipe Anticorrosion Materials CO.,Ltd 3、POLYKEN 930 Joint Tape

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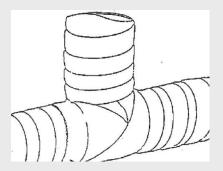


The Valuable Solution For Underground Pipe Coatings

POLYKEN 930 Tape For Joints &Fittings -No release liner

System Description

POLYKEN930 is a cold applied tape coating system designed for the corrosion protection of field joints, fittings, and specialty piping. The unique adhesive retains conformability over a wide temperature range, yet exhibits an elevated level of shear resistance, which is a key in-ground performance characteristic. Coupled with a pliable, very malleable polyethylene backing, this versatile tape system can be applied by hand or with a wrapping machine.



Features

-Heavy duty adhesive.
Ensures a strong bond & impervious seal.
-Conformable to irregular shapes.
Offers a solution for nearly every application.
-No release liner. Makes installation fast and easy.

- Cold applied
- -Complies with ASTMD 1000,AWWA C 214&209.
- -Reliable, high-performance corrosion protection.
- -Compatible with generic plant coating systems.
- -Compatible with PE,FBE,TAPE &COAL TAR coatings.

Product Properties	Test method	Typical Value	Typical Value POLYKEN 930-50	
Froduct Froperties	rest method	POLYKEN 930-35		
Tensile Strength	ASTM D1000	40 N/cm	50N/cm	
Elongation	ASTM D1000	300%	350%	
Peel Adhesion to Primed Steel	ASTM D1000	25 N/cm	32N/cm	
Water Vapor Transmission Rate	ASTM E 96	0.03		

Properties

POLYKEN [®] Jining	Qiangke Pipe I	Anticorrosion M	aterials CO.,Ltd	
Water absorption after 1 day,At+23 $^\circ\!\mathrm{C}$	ASTM D570	0.0)7%	
Volume Resistivity	ASTM D 257	2.0 x 10 ¹⁵ ohm.cm		
Dielectric Strength	ASTM D149	30 kv	32kv	
Max serve temperature		-20 to + 80 ℃		
Color		Black or White		

Ordering Information

POLYKEN 930 tape coatings are in roll form.

Eg.: POLYKEN 930-35 BLK 4"×50'

POLYKEN 930	Product Model No.	Standard ordering options
35	Total tape thickness in mils	35mils(0.89mm),50mils(1.27mm)
BLK	Tape backing color	Black (BLK),White(WHI)
4	Tape width in inches	2"(50mm),,4"(100mm),6"(150mm)
50	Tape roll length in feet	50ft(15M),100ft(30M)

(Width of Coating in inches) ×(Area of pipe in square feet)*

-----=Squares **of Coating Required

(Width of coating in inches-Overlap in inches) ×100

*Area of pipe in square feet=(Diameter in inches)/12×3.1416×(Length in feet)

****One square=One hundred square feet=9.29 square meters**

(Width of Coating in mm) × (Area of pipe in square meter)*

-----=Square meter of Coating Required

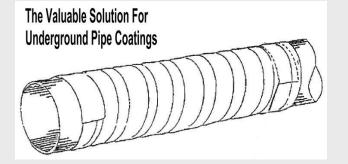
(Width of coating in mm-Overlap in mm)

*Area of pipe in square meter=(Diameter in mm)/1000×3.1416×(Length in meter)

4、POLYKEN 934 Tapes

Image





POLYKEN 934/955

Cold Applied Tape Coating System

Thick, aggressive adhesive for corrosion protection and repair of main line coatings.

System Description

POLYKEN 934 is a cold applied tape coating system designed for the corrosion protection of field joints, fittings, and specialty piping. The highly conformable backing and thick, aggressive adhesive also make it the ideal repair system for all types of main line coatings. The POLYKEN 934 tape with very tacky adhesive has a release plastic liner to enable proper unwinding of the roll. Whether used as a double wrap system or as a single wrap with a mechanical layer, the POLYKEN 934 tape coating system is universally specified in the oil, gas and water industries.

Features

- Conformable to irregular shapes.
- Excellent adhesion to pipe and self
- Thick, aggressive adhesive.
- Conformable to irregular shapes.
- Cold applied
 Compatible with all pipe diameters and generic plant coatings
- -Complies with ASTM D1000,AWWA C 209,EN 12068 standards
- -Complies with ASTM D1000,AWWA C 209,EN 12068 star
- As repair system for line coatings

Structure

Backing : Special blend of stabilized polyethylene	—Release Liner
Adhesive : Butyl bituminous and Adhesion Promoting Resins	-Rubber Adhesive Layer
Interleaf: Anti-adhesive Film Treated with Silicone.	—PE Carrier Film

Properties

			TYPICAL VALUES			
PROPERPTIES	UNIT	TEST	POLYKEN934-40	POLYKEN934-50		

		lining Qia	nako Dino	Anticorroci	ion Notoria	
			ingke Pipe	AIIUCUITUS	iuli maleria	115 GU.,LU
Total thickness	mil	ASTM D 1000	40mils	50mils	60mils	65mils
Tensile Strength	N/cm	ASTM D 1000	60	70	80	100
Elongation	%	ASTM D 1000	300	300	350	350
Peel adhesion To primed pipe	N/cm	ASTM D 1000	30	33	35	35
Dielectric Strength	KV/mm	ASTM D 1000	42	42.6	43	43.8
Volume Resistivity	ohm∙cm	ASTM D 257	2.5 X 10 ¹²			
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	Ĉ			-20-+	70 °C	
Max service temperature	Ĉ			-40-+	80 ℃	
Performance	AWWA C-209,ASTM D 1000,EN 12068					
Recommended primer	÷	P1027				
Additional mechanical I	ayer :	POLYKEN 955				

How to select coating materials

Example:Total coating required thickness 3 mm with a minimum overlap of 50%.

You Can Choose followed two methods :

-1st :PRIMER 1027+ 934-60(60mil=1.524mm) as single double wrap, total 3mm .

Or

-2nd :PRIMER 1027 + 934-40(inner tape-40mil=1.016mm)+955-20(outer wrap-20mil=0.508mm),total 3mm.

Ordering Information

POLYKEN 934 tape coatings are in roll form.

Eg.: POLYKEN 934-40 BLK 4"×50'

.524mm),65mils(1.651mm)
_

Material Requirements

(Width of Coating in inches) ×(Area of pipe in square feet)*

-----=Squares **of Coating Required

(Width of coating in inches-Overlap in inches) $\times 100$

*Area of pipe in square feet=(Diameter in inches)/12×3.1416×(Length in feet)

**One square=One hundred square feet=9.29 square meters

(Width of Coating in mm) ×(Area of pipe in square meter)*
-----Square meter of Coating Required

(Width of coating in mm-Overlap in mm)

*Area of pipe in square meter=(Diameter in mm)/1000×3.1416×(Length in meter)

5、 POLYKEN GTC Coating Tape



The POLYKEN GTC Coating System is designed for the corrosion protection of new and existing pipelines.

System Description

The **GTC Coating System** is designed for the corrosion protection of new and existing pipelines. The coating layer consists of a tough, woven polypropylene backing with a high tack butyl rubber adhesive. An additional layer of POLYKEN 980 or 955 should also be used on pipes larger than 12" diameter to improve the soil stress resistance of the system.

Structures

Backing : a tough ,woven polypropyleneAdhesive : high tack butyl rubber adhesiveInterleaf: Anti-adhesive Film Treated with Silicone.

Features

- Excellent adhesion to pipe and self
- _ Flexibility provides extra protection at vulnerable areas
- _ Compatible with generic plant coatings
- Low cathodic protection requirements

Technical Datas

- _ Can be applied over a wide temperature range
- _ Good conformability and consistent uniform thickness
- _ Heavy duty butyl adhesive ensures a strong bond & impervious seal.

PROPERPTIES UNIT		TEST METHOD	TYPICAL VALUES			
	UNIT		POLYKENGTC 40	POLYKENGTC 50	POLYKENGTC 60	POLYKENGTC 65
Total thickness	mil	ASTM D 1000	40mils(1.0mm)	50mils(1.27mm)	60mils(1.52mm)	65mils(1.65mm)
Tensile Strength	Kg/cm	ASTM D 1000	35	35	35	35
Peel adhesion To primed pipe	Kg/cm	ASTM D 1000	25	28	30	34
To backing	Kg/cm	ASTM D 1000	20	25	26.5	28
Dielectric Strength	KV/mm	ASTM D 1000	20	23	26	30
Water Absorptivity	%	ASTM D 570	0.1	0.08	0.08	0.06

Ordering Information

POLYKEN GTC

Eg.: POLYKEN GTC 4"×50'

POLYKEN GTC	Product Model No.	Standard ordering options
50	Total tape thickness in mils	40mils(1.0mm),50mils(1.27mm),60mils(1.52mm),65mils(1.65mm)
4	Tape width in inches	2"(50mm),,4"(100mm),6"(150mm),
50	Tape roll length in feet	50ft(15M),100ft(30M)

Material Requirements

(Width of Coating in inches) ×(Area of pipe in square feet)*

-----=Squares **of Coating Required

(Width of coating in inches-Overlap in inches) $\times 100$

*Area of pipe in square feet=(Diameter in inches)/12×3.1416×(Length in feet)

**One square=One hundred square feet=9.29 square meters

(Width of Coating in mm) ×(Area of pipe in square meter)*

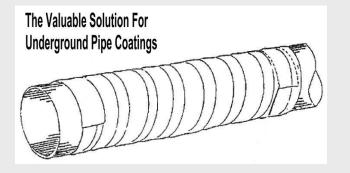
-----=Square meter of Coating Required

(Width of coating in mm-Overlap in mm)

*Area of pipe in square meter=(Diameter in mm)/1000×3.1416×(Length in meter)

6、POLYKEN 942&955 Coating System





POLYKEN 942/955 3-ply Coating System For New Pipelines and Existing Pipeline Rehabilitation

System Description

The POLYKEN 942&955 System is a multilayer coating system designed for the corrosion protection of pipelines operating in highly corrosive environments and exposed to high mechanical stresses that may be present particularly on large diameter pipes. The system consists of POLYKEN#1027 liquid adhesive,POLYKEN #942 three-ply anti-corrosion inner layer and POLYKEN #955 mechanical outer layer and is fully certified to the DIN 30672 and EN12068 standards. The 3-ply adhesive system produces a strong cohesive bond to the primed steel surface, at the spiral overlap and to the mechanical outer layer. The tough mechanical properties of the outer layer provide protection to the pipes during handling and installation.

-Uniform coating thickness

Plant coating quality with in-situ application

-Low cathodic protection-current requirements

-Compatible with all pipe diameters and generic plant coating systems

Saving cost over the life of the pipeline

Features

- Fully amalgamating overlapping areas
- Forming a sleeve-type coating
- Impermeable to oxygen and moisture
- Resistant to soil stress
- Superior in-ground performance
- -Long-term in-ground performance

Adhesive Inner Layer :

Adhesive Outer Layer:

Structure

Backing:

Total Thick

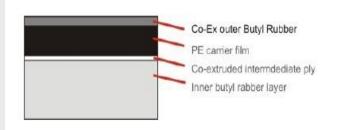
 Inner-3ply
 Outer-2ply

 POLYKEN 942-32
 POLYKEN 955-20

 12mil(0.30mm)
 15mil(0.381mm)

 12mil(0.30mm)
 5mil(0.127mm)

 8mil(0.20mm)
 0.508mm



POLYKEN®

Jining Qiangke Pipe Anticorrosion Materials CO.,Ltd

Properties

PROPERTIES	UNIT	TEST METHOD	Inner layer-3ply tape POLYKEN 942-32
Total Thickness	mil	ASTM D 1000	32mil(0.8mm)
Tensile strength	N/cm	ASTMD1000	112
Elongation at break	%	ASTMD1000	650
Peel strength to primed steel at 23 ℃ at 50℃	N/cm	EN 12068 Annex C	15 1.3
Peel strength tape to tape at 23 ℃ at 50℃	N/cm	EN 12068 Annex B	25 3.5
Peel strength layer to layer -Inner to Inner -Outer to Inner -Outer to Outer	N/mm	EN 12068	1.5 2.0 0.5
Dielectric strength	Kv/mm	ASTMD149	32
Insulation Resistance	Ohm.m ²	EN 12068	10 ¹²
Water Vapor Transmission	g/ m² /24h	ASTM E 96	0.1
Water Absorption	%	ASTM D 570	0.08
Impact resistance at 23°	J	EN 12068	18
Cathodic disbandment at 23°c at 50°c	mm	EN 12068	15 30
Lap shear strength $ m at~50^\circ\!C$	N/mm ²	EN 12068	0.05

Ordering Information

4

100

POLYKEN 942 and 955 tape coatings are in roll form.

Tape roll length in feet

Eg.: POLYKEN 942-32 4"×100'

POLYKEN942	Product Model No.	Standard ordering options
32	Total tape thickness in mils	32mils(0.8mm)
BLK	Tape backing color	Black (BLK)
4	Tape width in inches	2"(50mm),,4"(100mm),6"(150mm),9"(228mm),12"(305mm)18" (457mm)
100	Tape roll length in feet	50ft(15M)100ft(30M),200ft(61M)
Eg.: POLYKEN	955-20 BLK 4"×100'	
POLYKEN955	Product Model No.	Standard ordering options
20	Total tape thickness in mils	15mils(0.381mm),20mils(0.508mm),25mils(0.635mm),30mils(0.762mm)
BLK	Tape backing color	Black(BLK),White (WHI)

100ft(30M),200ft(61M),400ft(122M),600ft(183M),800ft(244M)

Equation for Pipe Coating Requirements

(Width of Coating in inches) ×(Area of pipe in square feet)*

-----=Squares **of Coating Required

(Width of coating in inches-Overlap in inches) $\times 100$

*Area of pipe in square feet=(Diameter in inches)/12×3.1416×(Length in feet)

**One square=One hundred square feet=9.29 square meters

(Width of Coating in mm) ×(Area of pipe in square meter)*

-----=Square meter of Coating Required

(Width of coating in mm-Overlap in mm)

*Area of pipe in square meter=(Diameter in mm)/1000×3.1416×(Length in meter)

7、POLYKEN 1600 HT Tape

Image









Description

The POLYKEN 1600-HT system is designed for the corrosion protection of new and existing pipelines with a maximum operating temperature of 250° F(121° C). The primer layer is a solvent-based, thermally-activated material formulated for elevated temperature stability. The coating layer consists of a cross-linked polyethylene backing and a cross-linked elastomeric adhesive capable of maintaining long-term protection at elevated temperature. The POLYKEN 1600 HT has a release liner to enable proper unwinding of the roll.

System Components

Primer layer #1619 Percent solids: 20 Flash point: 7° C (+45° F)

Product Construction

1600-30HT

Backing 10 mils(0.254 mm) Adhesive 20 mils (0.508 mm)

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

#1600 HT

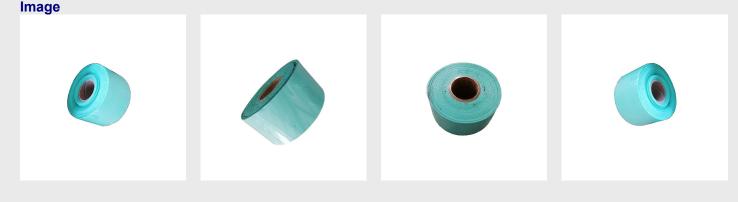
Thickness: 30 mils(0.762 mm) Tensile strength: 40 lbs/in(70 N/10 mm) Elongation: 500%

Properties

Tensile strength:40 lbs/in(70 N/10 mm)

Elongation	500%
Peel Adhesion to Primed Pipe	40 N/cm
to backing	17.8N /cm
Dielectric Strength	40 KV
Cathodic Disbandment	9.5 mm radius
Impact resistance	3.2J
Volume Resistivity	1.2 x 10 ¹⁵ ohm.cm
Water Vapor Transmission Rate	0.06g/M²/24h
Water Absorption Rate	< 0.08%
Serve temperatuere	-30 to +120 ℃

8、POLYKEN Visco-elastic tape



The Valuable Solution For Underground Pipe Coatings

POLYKEN VISCOWRP Coating System For Pipeline

System Description

POLYKEN Visco-elastic anticorrosive tape is a new-type high-performance viscoelastic polyolefin material. It preserves the dual characteristics of the 100% solid adhesive material and liquid adhesive material. In normal conditions, its viscoelastic property will keep above 30 years. This product has excellent viscolastic, water-proof sealant and easy-used characters.

VISCO ELASTIC COATING is a 2-layer system that consists of a corrosion protective inner wrap (VISCOWRP) and mechanical protective outer wrap that can be a PE, PVC or PU composite outer wrap.

Features

-Is easy to use and can be applied in almost any situation, including below- and above-grade structures and steel pipelines, elbow pipe, pipe bending, three joints and insulated flange.

-Remains flexible even after decades

-Adheres to any dry surface, such as concrete, steel, pvc, piping, ducts, etc.

- -Is easy and safe to use. No primers, solvents or heating are required.
- -Is the latest viscous elastic coating, with unique features.
- -100% impervious to moisture and gases. Works as a corrosion / vapor barrier, water stop and encapsulation agent

Jining Qiangke Pipe Anticorrosion Materials CO.,Ltd

-Is a long-term solution for Soil-to-air transitions, Field joints, High salt and water content,In-ditch applications,Pipeline Renovation Repair

- Excellent Self healing
- -No curing time, Permanent wetting characteristics.

R

-100% inert formulation : no reactive groups and no deterioration in the course of time.

-30 years product warranty.

POLYKEN

Properties

Item	Test method	Performance
color	Visual estimation	Green or blue
thickness	ISO 9001	1.8-2.0mm
Density	DIN 53479	1.6-1.7g/cm3
Application temperature		-40 to +70°C
Water absorption	ASTM D 570	< 0.1%
Tensile strength	DIN 30672	45N/cm
		Tested on steel (Sa2 1/2,St2 and
		St3)and plant coatings
		PP,PE,FBE .Results on all
		sustrates:
peel strength to steel (23 $^\circ\!\!\mathbb{C}$)	ISO 21809-3	@-45 ℃
		-PP,PE,FBE min 3N/mm.
		-steel min 20N/mm
		@+23 ℃ min0.5N/mm
		@+70 ℃ min 0.05N/mm
Cathodic disbondment resistance	EN 12068	< 6mm
Dielectric strength	DIN53481	12kv/mm
		Tested 72 h @130 ℃,No dripping
Drip resistance	ISO21809-3	of compound
		Tested @+23°C and +50°C on
		steel(Sa 2½, St 2 and St 3). Results
		on all substrates:
		@-45℃ min 3 N/mm²
Lap shear strength	ISO21809-3	@23℃ min 0.3 N/mm²
		@70℃ min 0.03 N/mm²
		- Cohesive failure
		- ≥ 99% coverage of surface
		$- \ge 0.6$ mm residual thickness
Water Vapor Transmission Rate	ASTM E 96	0.025%

Ordering Information

Wide: 50mm,75mm,100mm,150mm Length: 5m,10m,20m

Packing

Coiled on cardboard cores.Packed in cardboard boxes.

Storage

Indoor, dry and clean. No shelf-life .



Mechanical Protection Tapes (Outer Wrap-PVC/PE)

Generic type:

UV-resistant, flexible tape, coated with a modified, butyl rubber resin adhesive.

Product Description:

Outer Wrap PVC/ PE is used for mechanical protection of corrosion protective systems, The Outer Wrap has high puncture and aging resistance. Is well suited for above-ground, under ground and submerged applications. The heavy-duty adhesive layer provides high adhesion strength to the outer surface of the viscoelpastic as well as to it's own backing. The Outer Wrap has a good resistance to impacts and abrasion as well as resistance against the influences from alkalis and acids.

Features

- -Resistant to soil stress
- Excellent adhesion
- -Long-term in-ground performance
- Wide temperature range for service
- Cold appliedUniform coating thickness
- Good Conformability
- Excellent impact resistance

Properties (Outer wrap)

Item	Test method	Typical Value
Color		Black
Total Thickness		0.5mm
Carrier		0.3mm
Adhesive		0.2mm
Tensile Strength	ASTM D1000	10kg/25mm (40N/cm)
Elongation	ASTM D1000	300%
Peel Adhesion at 23°C	ASTM D1000	0.5N/cm
Water absorption after 1 day,At+23℃	ASTM D570	< 0.10%
Impact resistance at 23 °C	ISO 21809-3	≥15 J
Application termperature		0 to +60℃
Service temperature		-30 to 65℃

Properties (coating system: outer wrap PVC on Viscoelastic tape)

Item	Typical Value
Total Thickness	2.8mm -3.0mm
Impact resistance Tested at 15J	
At -30 ℃	No holidays (< 5 min)
At +23 ℃	No holidays (< 5 min)
At + 65 ℃	No holidays (< 120 min)
Indentation resistance	10N/mm2
At +23 °C	No holidays (< 5 min)
At + 65 ℃	No holidays (< 120 min)

Ordering Information

POLYKEN Outer wrap PVC/ PE is available in rolls. Wide: 50mm,75mm,100mm,150mm Length: 10m,20m,30m

Packing

Coiled on cardboard cores.Packed in cardboard boxes.

Storage

Indoor,dry and clean.Storage temperature not above 40 C degree for a long shelf -life .



9、Liquid Primer

Description

POLYKEN 1019 or 1027 Liquid adhesive is recommended for use with our coating systems only. The Liquid adhesive consist of a mixture of butyl rubber and synthetic compound and a solvent-gasoline. 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 is suitable for hand brush or machine spray application. It can be applied by hand or machine.

Hand-application : app. 0,2 litre/m² pipe surface Machine application: app. 0,1 litre/m² pipe surface

Features

Heavy duty adhesive Quick Dry Conformable to irregular pipe Compatible with general coating system

Properties

Properties	Unit	P1019	P 1027	
Solid content	%	20	27	
Weight	Kg/liter	0.77	0.87	
Viscosity+23℃ (out flow time,4mm nozzle)	sec	40 ± 5	40 ±5	
Flash point	°C	14	15	
Drying time	min	5-10	5-10	
Color		black	black	
Package	15/20/200Liter pe	15/20/200Liter per drum		

Hot Applied Shrinkable Tape

System description

It 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.

Structure

The specification of the tape consists of three layers,

Adhesive:	Butyl rubber based hot melt adhesive
Film backing:	Radiation crosslinked polyethylene
Interleaf:	Antiadhesive Film Treated with Silicone

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

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-30m
- 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

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.

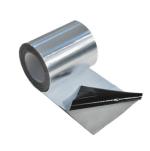
Wrap spirally the tape over foreign matters-free and preheated surface, beginning at least 25~50mm (1~2) onto pipe coating. Wrap the tape with enough tension to obtain conformability and with minimum 50% of overlapping, while removing the release liner. Warm the end part of the tape and press down firmly.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

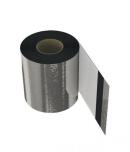
Waterproofing Tape

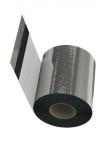
POLYKEN Aluminum Butyl Tape









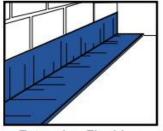


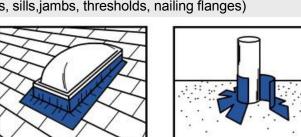
DESCRIPTION

A cold applied self adhesive aluminium backed flashing in roll form.

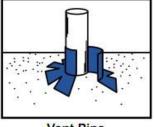
USES

- _Window and door openings (headers, sills, jambs, thresholds, nailing flanges)
- Deck-to-wall intersections
- Corner boards
- _Wall-to-wall tie-ins
- _Foundation sill plates
- _Sheathing panel seams
- Under stucco finishes
- _Car's insulation
- _ Roof detail areas
- _ Gutters
- _ Mobile home repair
- _Other building joints.
- _Exposed pipelines protection.





Skylights



Vent Pipe



COMPOSITION

Backing: Aluminum or PE coated Aluminum or Woven aluminum Adhesive: butyl rubber or butyl bituminous or bitumen Release Liner: Anti-adhesive PE Film Treated with Silicone.

Features

Easy application -- Installationis fast and easy-simply remove the release film and press onto the substrate.

Superior adhesion capabilities-- Creates a strong bond to the substrate for long-lasting waterproofing Protection.

Excellent sealing performance-- The specially formulated rubberized asphalt adhesive seals around fasteners, allowing no water to penetrate and get to the substrate.

Highly conformable and flexible -- Can accommodate settlement and shrinkage movement.

Long-lasting waterproofing protection-- Create a water and moisture barrier that does not degrade from the effects of the environment.

Technical Datas

PROPERTIES	TYPICAL VALUES	UNIT	
Adhesion	30	N/cm	
Breaking Strength	40	N/cm	
Moisture absorption	0.02	%	
Temperature range			
For application	5 to 50	°C	
For maximum service	93		
Tonoilo Strongth	11.0	b/in	
Tensile Strength	0.2	kg/mm	
UV resistance	Excellent		
Roll of Thickness	0.8mm,1.0mm,1.2mm,1.27mm,1.4mm,1.5mm,1.65mm,2.0mm		
Width	5cm,7.5cm,10cm,15cm,20cm,30cm,40cm,50cm80cm		
Length	30m,20m,15m,10m,5m		



Jining Qiangke Pipe Anticorrosion Materials CO.,Ltd

Soundproof Tape

POLYKEN Aluminum Butyl Tape

For Car's Soundproof & insulation

Specifications

1.soundproof / absorption/insulation

2.shock proof

- 3.for auto motive industry
- 4. Thermo insulation
- 5. Vibration absorption

Description:

Aluminum butyl rubber tape for car's auto soundproof and shock absorption The tape including a butyl layer, single side coated with aluminum foil.

	Thickness
Backing : flexible aluminum foil	0.1mm
Adhesive : Butyl rubber	1.9mm
Color :	Sivler

Features:

High adhesion. High and low temperature resistance (-50C to 130C) Age, acid, alkali resistance. Have no corrosion to the attached object. No unpleasant smell, environment friendly. Water resistance: does not absorb moisture. Resistant to mildew. Non toxic.

Very easy to apply (self adhesive).

Benefits:

The tape can easily bond to metal and other materials. Aluminum foil can effect reflex the heat outside of the car. Soft and durable

Application:

The surface needs to be dried and cleaned of any dust, grease and oil before application. Self-adhesive layer will ensure tight grip to the place need protection.

Heat Shrinks Products

1, POLYKEN Heat Shrink Tubing Sleeves

It is a heat shrinkable tubular sleeve designed for corrosion protection of buried and exposed steel pipelines. Consists of a cross-linked polyolefin backing, coated with a protective heat sensitive adhesive which effectively bonds to steel substrates and common pipeline coatings including polyethylene and fusion bonded epoxy.

Tubular type sleeves are installed before joining the pipe ends by sliding the coat from a free end of the pipe onto the area to be coated.

A unique, factory constructed, tubular configuration allows for quickest installation time because less time is spent handling the sleeve and closure

A specially formulated adhesive bonds to common pipeline coatings and is engineered for demanding conditions up to a maximum operating temperature of 55°C (131°F)



2, POLYKEN Heat Shrink Wraparound Sleeves

Wraparound sleeve with a separate closure designed for corrosion protection of buried and exposed steel pipelines. It consisting of a cross-linked polyolefin backing, coated with a protective heat activated adhesive. Once installed, the system effectively bonds and protects steel substrates and common main line pipe coatings including polyethylene and fusion bonded epoxy.

• Just-in-time customized lengths allow bulk rolls to be field cut to protect any pipe size

• Open sleeve configuration allows the product to be applied after the pipeline has been welded and cleaned

• A broad range of operating temperature specific and soil stress resistant adhesives for project specific conditions



Design Temperature

HT C 50/65

HT C 70/80

50℃/65℃-type heat-shrinkable sleeve is this Company's leading product, which was developed in

the year 2000 and was put into the market in 2001. Up till now, altogether 500 thousand sets of it have been used and there is good market feedback. It has earned recognition of and praise from each major customer.

 $50 \degree$ C/65 \degree C -type sleeves is easily handled, safe, fast in shrinking and short in construction time. Average operators can easily handle it. All these combined together make this product a good choice for protection coating of petroleum and natural gas pipes.

 $70/\;80/120\;{}^\circ\!C$ - type heat-shrinkable sleeves is used in high temperature place, such as desert, Middle east .

We have taken a lead in China to pass the European test and get the DVGW certificate. Standard with EN12068, DIN 30670, ASTM.

A.Properties of Sleeve PE backing

Properties	Test Methord	Up to 60 ℃	Up to 80 ℃
Tensile strength	ASTM D638	2600psi	2900psi
Elongation	ASTM D638	550%	550%
Hardness ShoreD	ASTM D 2240	45	45
Volume resistivity, at $23^{\circ} \Omega$.m	ASTM D257	1×10 ¹⁴	1×10 ¹⁴
Dielectric strength KV/mm	ASTM D 149	25	20
Water absorPtion at 23°C24hrs.wt	ASTM D570	≤0.1	≤0.1
Water-vapour transmission (max)	ASTM E96	0.05g/h/m²	0.05g/h/m²

B.Properties of Melt Adhesive

Properties	Test Methord	Up to 60 ℃	Up to 80 ℃
softening point, $^{\circ}\mathbb{C}$	ASTM E 28	103	112
Lan choor strength (N/cm^2) at 22	ASTMD 1002	200	400
Lap shear strength (N/cm2) at 23	EN 12068	32	11

C.Properties of Installed sleeve

1			
properties	Test Methord	Up to 60 ℃	Up to 80 °C
Peel Strength at 23 $^{\circ}\!C$	EN 12068	65N/cm	85N/cm
Impact Resistance	EN 12068	min.15J	min.15J
Indentation Resistance	EN 12068	min. 1mm	min. 1mm
Cathodic Disbondment	EN 12068	max.15mm	max.15mm
at 23°C 30 days			
Resistance to thermal ageing	EN 12068	After 100 days at 80 $^\circ \!$	After 100 days at 100 $^\circ\!\!\!\!\!^\circ$
-Tensile strength ratio		0.9	0.9
-Elongation ratio		0.9	0.8

3, POLYKEN Heat Shrink Wrap Tape

Heat Shrinkable Wraparound Tape designed for corrosion protection of buried and exposed steel pipelines, especially for pipelines, fittings, bends, elbows and other irregular configurations. It is made of three layers, namely the outer layer (backing material) is a cross-linked polyolefin backing; the middle layer is high performance heat melting adhesive, polyethylene and fusion bonded epoxy The two-layer tape bears no primer. Upon the application of heating, it shrinks down to fully encapsulate the protected substrate.

Features & Benefits

-you can cut it by yourself according to different pipeline size.

-The product is packaged in convenient rolls with various widths protect and repair pipelines, fittings, bends, elbows and other irregular configurations.

-Cross-linked backing provides superior abrasion, mechanical and

chemical attack resistance.

-High performance adhesive provides excellent resistance to Cathodic

Disbondment to ensure long-term corrosion protection

Specification

-Width: 50mm、100mm、150mm、200mm、300mm、500mm and so on.

-length: 15m、20m、25m、30m,

-The Size can be ordered according to customers' demands





4, POLYKEN Repair patch

Repair Patch cosists of an irradiated cross-linked polyolefin backing with hot melt adhesive layer. It is designed for sealing damaged pipe coatings. In combination with melt stick and epoxy primer most minor damages and cracks can be repaired effectively . It is compatible with most of the common pipeline coatings and suitable for operating temperatures up to 80 $^{\circ}$ C.





Properties of repair patch

properties		Test Methord	Typical Value
	Tensile strength	ASTM D638	2900psi
	Ultimate Elongation	ASTM D638	530%
Backing	Volume resistivity	ASTM D257	$1 imes 10^{16}$ ohm.cm
	Dielectric strength	ASTM D 149	20KV/mm
	Water absorption at 23°C24hrs.wt	ASTM D570	0.05
	Softening Point	ASTM E28	115 ℃
Adhesive	Peel Strength	EN 12068	70N/cm
	Lap Shear	EN 12068	100N/cm ²
	Impact Resistance	EN 12068	Min 15J
	Penetration Resistance	EN 12068	Min 0.6mm
Installed patch	Cathodic Disbondment 30days	ASTM G42	Max 20mm-radius
	Dielectrice Breakdown	ASTM D149	40KV

DIMENSIONS

Dimension	Repair Patch	Filler Mastic	Melt Stick
Width	150mm	50mm	25mm Dia.
Thickness	2.0mm	3mm	25mm Dia
Length	10-30m	3m	300mm

5, POLYKEN Epoxy Primer

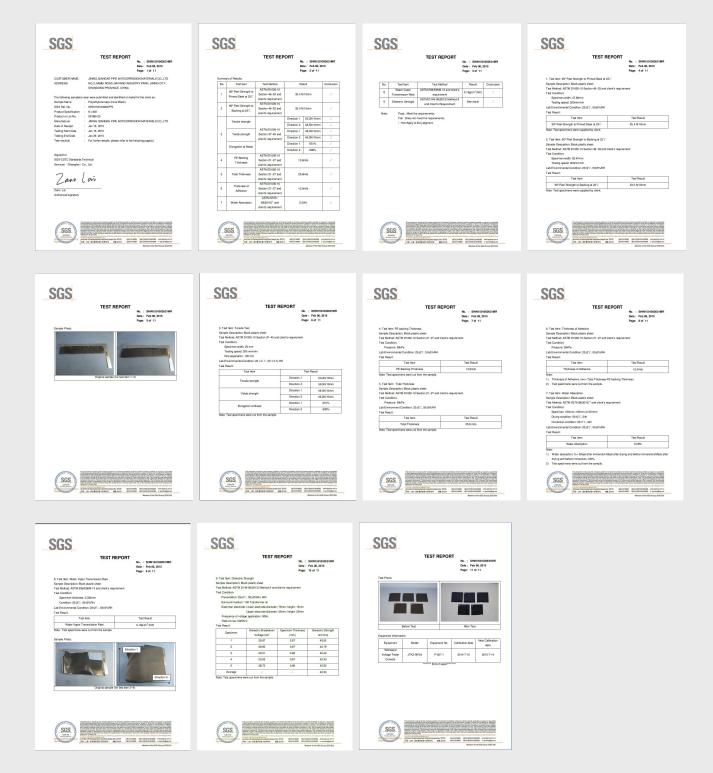
Epoxy primer is a two component ,solvent free ,proprietary formulation. The components are mixed prior to aplication in the field . The resultant coating forms the first layer of corrosion protection , in a 3 layer system . the primer should be applied on the pre-heated bare steel surface , as well as the line coating where the sleeves will be shrunk . the resultant film ensures superior corrosion protection . The primer can be used with tubular sleeve and wraparound sleeve.

Properties

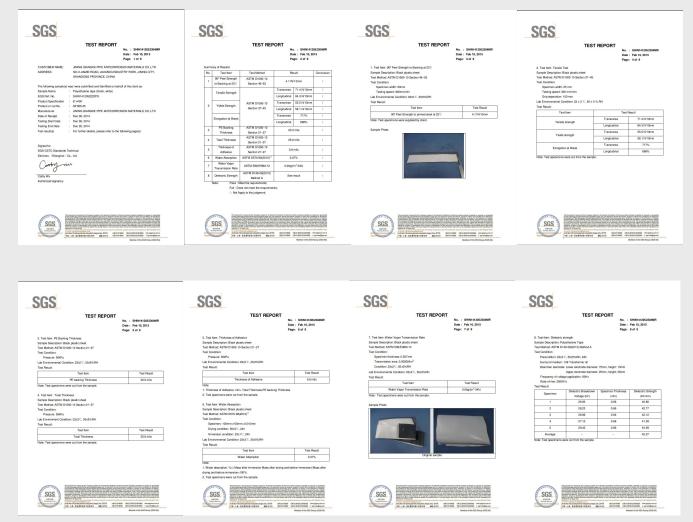
Color	Black
Specific gravity (Base A)	1.62
Specific gravity (Cure B)	0.9
Volume of Solids	100%
Mixing ratio	4:1(by volume) or 2:1 (by weight)
Coating thickness	4-6mils (100-150microns)
Pot life at 23 °C	20-30 mintues
Shelf life	2 years under proper storing conditions.shelf life
	will be lesser at high temperatures

Certificate

SGS-Inner Wrap 6"*400'



SGS-Outer Wrap 6"*400'





CNPC-China National Petroleum Corporation

	CNAS L4	100		Report No.: 20130;	52002
e you have	THE ANTICO		<u>E TESTING 1</u> INSTITUTE (
	TEST	ΓR	EPO	RT	1 4
					13
	Sample:	Poly	vethvlene tape		四日十二

-	<u>OF PIP</u>	ELINE RE	ESEARCH	VE TESTING INSTITUTE	OF CN	PC
			TEST REF	ORT	,	No.: 2013052002
Sample	Polyethylene t	ane		D		sheet, White sheet,
	Inner Wrap:Guanfang 980-25 BLK 9"*600			Description	Black I	
Туре	Outer Wrap:Gr Primer:P27	anfang 980-25 Janfang 955-25	5 WHT 9"*600	Lot number	1	
Quantity	Black sheet(1),	White sheet(1)	Black liquid(1)	Production	/	
Client	JINING QIAN CO.,LTD	GKE INDUST	RY TRADE	Test category	Entrust	nent
Manufacturer	JINING QIAN CO.,LTD	ING QIANGKE INDUSTRY TRADE Delivery date May 20, 2013				. 2013
Date received	May 20,2013		Test date May 20, 2013~ Ma			2013~ May 21, 2013
Client address	JIAXIANG INDUSTRY PARK, JINING CITY, SHANDONG PROVINCE, CHINA					
Technical file	GB/T 6672-2001,ASTM D1000-2010,etc.					
Test items		Unit	Results	Specifications		Test method
Inner Wrap						
PE t	packing	mils	13.2	≥13		
Total t	hickness	mils	25.9	≥25	≥25	
Butyl Rub	ber adhesive	mils	12.5	≥12		
Tensile	strength	N/10mm	90.5	≥50		
Yields stree	ngth at 23 °C	N/10mm	51.2	≥40		ASTM D 1000-2010
	break at 23℃	%	6.8×10 ²	≥200		
Peel strength (23°C)	Adhesion to primerd steel	N/cm	34.0	≥25		
Dielectric	strength	kV/mm	30.81	≥30		ASTM D 1000-2010
	meability (24h)	g/m²/24h	0.2	≤0.2		ASTM E96/E96M-2010
water absorp after 1		%	0.05	≤0.1		ASTM D 570-1988

	OFFICE	TE RESE	ARCH INS ST REPOR	STITUTE OF	CNPC	
		IE	SI KEPOR		No.: 2013052002	
	Test items	Unit	Results	Specifications	Test method	
Outer Wra	ар					
PE backing		mils	20.9	≥20		
	Total thickness	mils	30.7	≥25	-	
Buty	l Rubber adhesive	mils	9.8	≥5		
Tens	ile strength at 23 °C	N/10mm	98.4	≥50	ASTM D 1000-2010	
Yield	ds strength at 23°C	N/10mm	54.2	≥40	-	
Elonga	tion at break at 23°C	%	6.3×10^{2}	≥200&≤400		
Di	electric strength	kV/mm	33.45	≥30	ASTM D 1000-2010	
Water vapor permeability (24h)		g/m²/24h	0.098	≤0.1	ASTM E96/E96M-2010	
water absorption at 23°C after 1 day		%	0.099	≤0.1	ASTM D 570-1988	
Colour		/	White	White	/	
Primer						
Dry thickness		mils	5.6	2-3	ASTM D1186-2001	
Dry time		minute	18	10-15	ASTM D 1640-2003(2009)	
	solid content	%	36.7	27-30	ISO 1515-1973	
	scosity at 23°C v time,4min nozzle)	s	38	40±5	ASTM D1200-2010	
	Colour	/	Black	Black	/	
Blank						
Note	None					
Lab. assistant	Pengcheng Li, Yanin	g Gao			日盛诺政	
Editor	Xian jing. Wang	Auditor	Ye 2heng 2013.5	Approver	Jun yan je	
	2013.5.2)		2013.5	-21	5013 5 2	

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China National Petroleum Corporation

中国石油天然气集团公司

中国石油天然气管道局

发证单位:

准入章: Certificate stamp

Certificate of Material Suplier



54470. TRUAN DANS ANABE

管道局 供应商审核查

- 违反中国石油天然气集团公司物资供应商管理规范的取消 准入资格,此证作度。
 This certificate will be revoked if the supplier violates CNPC's regulations related to material supplier management.
- 本证书不得涂改、转让,若损坏或遗失请申请补办。 This certificate SHALL NOT be altered or transferred. In case that it is damaged or lost, please apply for a new one.

<u> </u>	Coating
Cross Section of Pipe	Pipe Liquid Anti-Corrosion primer layer Anti-Corrosion inner layer Mechanical outer layer
	Mechnical outer layer Anti-corrosion inner layer Liquid Anti-corrosion primer la
Cross Section of Coating	Pipe

Contact:

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E-Mail: chinapipetape@163.com

Web: www.pipe-wrap-tape.com

