

JINING QIANGKE PIPE ANTICORROSION MATERIALS CO.,LTD

PIPELINE COATINGS

**The World Leader in Technology,
Quality and Service**



POLYKEN Coating System



POLYKEN Line Travel Coating System



POLYKEN Reconditioning coatings



POLYKEN Plant Coating System



POLYKEN Pipeline accessory products

THE HIGHEST QUALITY ANTI-CORROSION COATING SYSTEMS FOR UNDERGROUND PIPELINES

Company Profile**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
- 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)
- 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

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

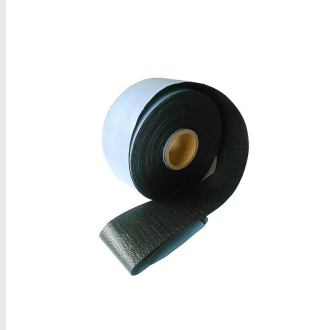
- High adhesion strength
- High shear resistance and shear strength
- Cathodic disbonding resistance
- Dielectric strength and electrical resistance
- Resistance to impact and penetration forces and stresses
- Stable to thermal and hydrolytic environments
- Long term performance stability
- Compatible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

Technology

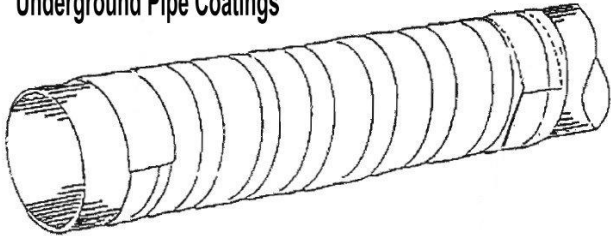
- Calendering process for the lamination of the tape and outer-wrap produce
- Calenering 2 Ply and 3 Ply Polyethylene tape systems within manufacturing facility using vertical integration of resources
- Slitting on site for the various sizes of products to meet application requirements
- Packaging on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

1、POLYKEN GTC Coating Tape

Image



The Valuable Solution For
Underground Pipe Coatings



POLYKEN GTC

Cold Applied Tape Coating System

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 polypropylene

Adhesive : high tack butyl rubber adhesive

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

Technical Datas

PROPERTIES	UNIT	TEST METHOD	TYPICAL VALUES			
			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	Kg/cm	ASTM D 1000	25	28	30	34
To primed pipe						
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) ×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

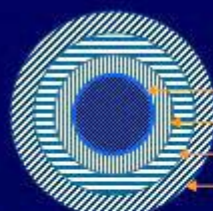
(Width of Coating in mm) ×(Area of pipe in square meter)*

-----=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)

Cross Section of Pipe and Coating



Cross Section of Pipe

Pipe
Liquid Anti-Corrosion primer layer
Anti-Corrosion inner layer
Mechanical outer layer



Cross Section of Coating

Mechanical outer layer
Anti-corrosion inner layer
Liquid Anti-corrosion primer layer
Pipe

Contact:

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