CYG CHANGTONG NEW MATERIAL CO., LTD
CYG Changtong New Materials Company Limited (for short, CYG Changtong) is located at Guangming New District of Shenzhen City. Under Changyuan Group Joint Stock Company (for short, CYG with Stock Code 600525), CYG Changtong is a state-level high-tech enterprise integrating R&D, production and sales of pipeline corrosion protection materials as well as buried pipeline detection service and pipeline coating field application service into one.

CYG Changtong devotes itself to R&D, production and sales of pipeline corrosion protection materials for decades. CYG Changtong is the first one to develop and launch the dry film heat shrinkable tape products in the domestic market. CYG Changtong becomes the largest supplier of field joint coating for years in PetroChina, Sinopec and local pipelines and its market share is more than 30%. Furthermore, CYG Changtong has successfully developed and introduced a number of specialty corrosion protection materials such as visco-elastic anticorrosion materials, heat shrinkable pressure sensitive tapes, special epoxy FRP for horizontally directional drilling (HDD) protection, special photo-curing sleeve for HDD protection and polyurea coating. By good cooperation with leading R&D institutes such as CNPC Pipeline Science Research Institute, CYG Changtong is capable to provide in-service pipelines with varied technical service such as buried pipeline detection, design scheme, cathodic protection, rehabilitation project and an integrated solution for the safety protection of pipelines.

**Enterprise Honor in CYG Changtong:**
Member of Council in Chinese Society for Corrosion and Protection (CSCP)
Qualification Certificate of Corrosion Protection Construction
Qualification Certificate of Pipeline Detection
Well-known Brand of Pipeline Corrosion Protection in China
Corporate Member of China Association of Petroleum Engineering Construction (CAPEC)
State-Level High-Tech Enterprise with more than ten proprietary intellectual
property rights
First-class supplier of PetroChina
First-class supplier of Sinopec
First-class supplier of China Gas Group
Winner of “Award of Standing Together Regardless of Situation”
Principal supplier of corrosion protection materials in a number of large projects such as West-East Natural Gas Transmission Project 2\(^\text{nd}\) Pipeline, West-East Natural Gas Transmission Project 3\(^\text{rd}\) Pipeline, Sichuan-East Natural Gas Transmission Project and Russia-China Crude Oil Transmission Project Mohe-Daqing Pipeline.
High-temperature resistant 80°C heat shrinkable tape has been tested and certified by DVGW.
Both pipeline heat shrinkable materials and visco-elastic anticorrosion tape and paste win the works approval and products certification by China Classification Society (CCS)
CYG Changtong has passed and obtained ISO 9001 Quality Management System certification, ISO 14001 Environment Management System certification, OHSAS 18001 Occupation Health Safety Management System certification.

★ Pipeline Anti-Corrosion Products

Let’s make it safer

Leading Manufacturer

★ Pipeline Coating Application

First Class Service

★ Pipeline Coating Rehabilitation

One-Stop Service
Anti-Corrosion and Protection

- Heat Shrinkable Sleeve and Tube
- Viscous-Elastic Tape and Paste
- Epoxy FRP Sleeve for HHD
- Underground Warning Tape
- Cathodic Protection Materials
- Shrinkable Pressure Sensitive Tape
- PE/PP Anticorrosion Adhesive Tape

Anti-Corrosion Coatings

- Pipeline field joint coatings
- Storage tank coatings
- Pipeline internal flow coatings

And

- One-Stop Service for Rehabilitation of In-Service Pipeline including Survey, Repair or Rehabilitation of Pipeline Coatings
FRDP Heat Shrinkable Wraparound Sleeve
FRDP wraparound heat shrinkable sleeve (HSS) with a separate closure patch is mainly used for field joint coating of underground 3LPE coated steel pipelines and thermal insulated pipelines.

FRDP-PP heat shrink sleeve (3LPP HSS) with a separate closure patch is mainly used for field joint coating of underground 3LPP coated steel pipelines and thermal insulated pipelines.

FRDP / FRDP-PP wraparound HSS / 3LPP HSS bonds the steel substrate, FBE primer and plant-applied polyethylene / polypropylene coatings excellently to form a continuous and durable corrosion protection system on the pipeline.

FRY Heat Shrinkable Tubular sleeve
FRY heat-shrinkable tubular sleeve is intended to protect buried pipeline weld joint from corrosion and it is suitable to varied pipeline sizes up to DN1000(40”). Also it is applicable to protect the flanged joint and insulated flanges. FRY tubular HSS is compatible with all standard pipeline coatings and outer jackets

FRDK Heat Shrinkable sleeve for directional drilling
PRDK is a high performance fiberglass reinforced sleeve specifically designed for girth weld corrosion protection on pipes used in directional drilling applications.
FRDK system provides effective protection against abrasion and wear forces that occur during the pull-through operation. The system is fully compatible with cathodic protection systems, resists cathodic disbondment and is designed for a wide range of operating temperatures.

**FRDS Heat Shrinkable Wraparound Tapes**

FRDS heat shrinkable tapes consists of radiation cross linked polyethylene backing which is coated with adhesive. It bonds to steel substrate, FBE and plant-applied PE firmly.

FRDS tapes is easy in use as its great flexibility and especially suitable for protection and repair of oil, gas and water pipelines, fittings, elbows, bends and other irregular articles.

**FRDX Repair Patch and Hot Melt Adhesive Stick**

FRDX repair patches and hot melt adhesive sticks are hot-applied repair materials for damaged mainline coating or field joint coating.

FRDX is a cost effective repair system for any damaged PE coatings during transportation, storage and installation of coated pipes.

**FRWT Waterproof End Cap**

FRWT waterproof end cap is mounted on the insulated pipe end to protect thermal insulation from
It is easy to mount FRWT waterproof cap on the insulated pipe end and it will shrink quickly to form a sound waterproof sealing at the insulated pipe end. It has excellent water repellency, chemical resistance and a desired service life as long as the pipelines.

**Heat Shrinkable Pressure-sensitive Adhesive Tape**
PRI-SZCY enjoys a lot of advantages such as firmly bonded interface, high mechanical stability, good resistance to water vapor and oxygen permeation, easy to repair, less energy consumption and fast assembly-line. PRI-SZCY is applicable to repair both newly built and in-service pipelines.

**CTN Viscous-Elastic Anticorrosion Tape**
CTN viscous-elastic anticorrosion tape consists of new-type high-performance viscous-elastic polyolefin materials. It combines the characteristics of both solid and liquid adhesive materials into one. Its viscous-elastic property will last more than 30 years under normal conditions.

**PE/PP Anticorrosion Adhesive Tape**
PE/PP anticorrosion tape consists of PE or PP backing and butyl rubber adhesive. Together with special primer, it provides outstanding adhesion, ageing resistance and UV resistance, and perfect compatibility with various plant-applied coatings. It is intended for field joint coating and rehabilitation of oil, gas and water
pipelines, storage tanks and irregular shape articles like flange, tee, bend and elbow.

**Underground Warning Tape**
The underground warning tapes are made of PE for protection of underground gas pipeline, water mains, cable conduit or other underground goods. The tape is easy in use and environmentally friendly without rust or poison.

**Epoxy GRP Coatings for HDD**
Epoxy fiberglass reinforced plastic (FRP) is applied on single pipe. It is used for field joint coating, especially for reinforced external protection of pipes in horizontal directional drilling.

**Cathodic Protection Materials**
CYG has developed a number of special purpose materials for CP system such as sacrificial magnesium anode and zinc anode as well as the innovative conductive polymer flexible anode and MMO (mixed metal oxide) flexible anode.

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**CYG CHANGTONG NEW MATERIAL CO., LTD**

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