



## ANCORRO VE FOR CORROSION PREVENTION & SEALING

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Ancorro粘弹体  
为防腐密封而生

Authorized Distributor



中華五金有限公司  
CHUNG WAH METAL CO., LTD.

Ancorro Co., Ltd.  
四川北尚新材料科技有限公司

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## Ancorro Co., Ltd.

Ancorro Co., Ltd. is a subsidiary of Sichuan Deyuan Pipeline Technology Company Limited specialized in R & D, production and sales of visco elastic corrosion prevention materials, repairing & reinforcing composite materials with its headwaters locating in Longquanyi District, Chengdu, China.

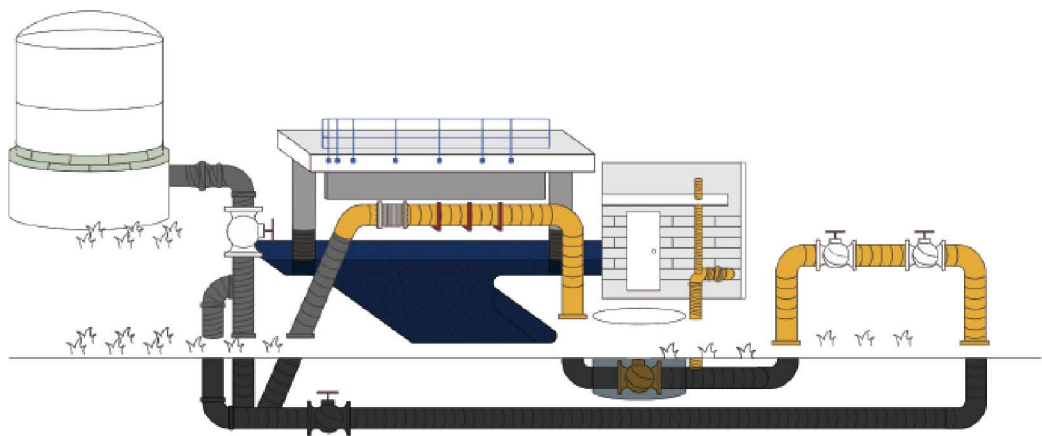
Ancorro Co., Ltd. own professional R & D team and production facility with ISO9001,14001 &18001 system certification and successfully R & D series underground corrosion prevention products, aboveground corrosion prevention products, offshore corrosion prevention products and vacuum repairing & reinforcing products which are widely used for oil & gas pipelines, urban gas, petrochemical industry, electric power, municipal administration, port, wharf and other industrial fields.



## Main Customer



PRODUCT



| No. | PRODUCT                                   | Application Examples                                                                                |
|-----|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 1   | ANCORRO VE SelfFusion                     | Unburied pipeline with DN≤100mm and small sized steel-plastic converter, tee, elbow & welding joint |
| 2   | ANCORRO VE Coatable                       | Unburied pipeline, flange, valve, tank chime, bolt & steel structures                               |
| 3   | ANCORRO VE Stretch                        | Unburied flange, valve, bolt & irregular structures                                                 |
| 4   | ANCORRO VE, VE Filler & VE Paste          | Buried pipeline, flange, valve, tee & elbow                                                         |
| 5   | ANCORRO VE Subsea                         | Underwater & condensing structures                                                                  |
| 6   | GFRP Mechanized Prefabrication Technology | Wear protection for pipeline directional crossing by HDD                                            |
| 7   | Vacuum Composite Kit                      | Repairing & reinforcing metal loss defect ≤80% on pipelines and steel structure                     |
| 8   | Leak-Stop Kit                             | Leak-stoppage for pipeline (pressure≤3KG & ≤DN100) & threaded connector                             |
| 9   | Gas-Leak Repair Technology                | Leak-repair for flange, isolating joint on gas pipeline without fire under pressure                 |

## ANCORRO VE SelfFusion



ANCORRO VE SelfFusion is a stretchable EPDM rubber backed, non-crystalline corrosion prevention and sealing polymer integrated with mechanical protection.

### APPLICATION RANGE

Corrosion prevention, UV resistance & safety warning for unburied pipeline with  $DN \leq 100mm$  and small sized steel-plastic converter, tee, elbow & welding joint.

### FEATURE

- **Cold Elastic**/Can be 1.5 times stretched with auto rebounding & tightening
- **Self Fusion** /Can self-fuse as a whole on overlaps
- **Weather Resistant**/Over 20 years outdoor service life



SCAN QR  
FOR VIDEO



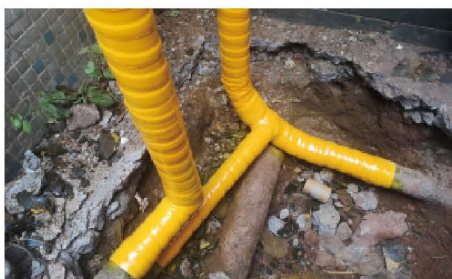
Ancorro VE For  
Corrosion Prevention & Sealing

### MAIN PROPERTIES

| Item                                              |                                    | Value                         | Standard                 |
|---------------------------------------------------|------------------------------------|-------------------------------|--------------------------|
| Temperature Range                                 |                                    | -30~70°C                      | —                        |
| Drip Resistance ( $T_{max} + 20^{\circ}C, 48h$ )  |                                    | No Dripping                   | ISO 21809-3-2016 Annex K |
| Specific Electrical Insulation Resistance at 23°C |                                    | $\geq 10^{10} \Omega \cdot m$ | ISO 1853-2018            |
| Peel Strength To Steel/PE(23°C)                   |                                    | $\geq 0.3N/mm$                | ISO 21809-3-2016 Annex H |
| UV Resistant (600h)                               | Conservation Rate Of Peel Strength | $\geq 85\%$                   | ISO 4582-2007            |
| Salt Spray Resistance (500h)                      |                                    | No Corrosion Detected         | ISO 7253-1996            |



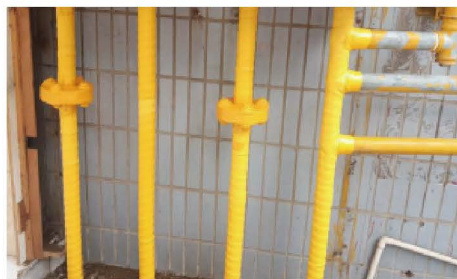
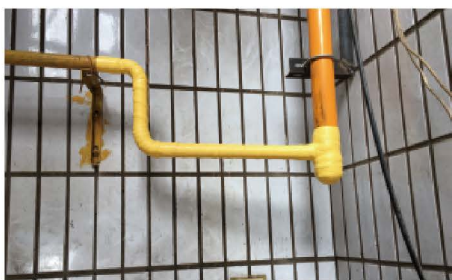
Corrosion prevention for through-wall/floor pipeline



Corrosion prevention for steel-plastic converter & out-ground pipeline

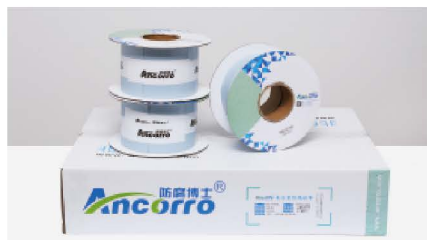


Corrosion prevention for tee & elbow



Corrosion prevention for welding joint & threaded connector

## ANCORRO VE Coatable



ANCORRO VE Coatable is a non-woven fabric backed, non-crystalline corrosion prevention and sealing polymer which requires an elastomeric top coat for protection.

### APPLICATION RANGE

Corrosion prevention, UV resistance & safety warning for unburied pipeline, flange, valve, tank chime, bolt & steel structures.

### FEATURE

- **Free Moulding**/Excellent adhesion on irregular structure
- **Easy Coating** /Can be painted with specific color or logo
- **Self Fusion**/Can self-fuse as a whole after wrapping & coating
- **Sealing Performance**/Over 20 years sealing service life



Ancorro VE For  
Corrosion Prevention & Sealing

### MAIN PROPERTIES

| Item                                                 |                                    | Value                               | Standard                 |
|------------------------------------------------------|------------------------------------|-------------------------------------|--------------------------|
| Temperature Range                                    |                                    | -30~70°C                            | —                        |
| Drip Resistance ( $T_{max}+20^{\circ}\text{C}$ ,48h) |                                    | No Dripping                         | ISO 21809-3-2016 Annex K |
| Specific Electrical Insulation Resistance at 23°C    |                                    | $\geq 10^{10}\Omega \cdot \text{m}$ | ISO 1853-2018            |
| Peel Strength To Steel/PE(23°C)                      |                                    | $\geq 0.2\text{N/mm}$               | ISO 21809-3-2016 Annex H |
| UV Resistance (600h)                                 | Conservation Rate Of Peel Strength | $\geq 85\%$                         | ISO 4582-2007            |
| Salt Spray Resistance (500h)                         |                                    | No Corrosion Detected               | ISO 7253-1996            |



Corrosion prevention & UV resistance for bridge-crossing, overhead & sweating pipelines



Corrosion prevention for valve in valve-pit



Corrosion prevention & safety warning for oil & gas station and flange



Corrosion prevention

## ANCORRO VE Stretch

ANCORRO VE Stretch is a stretchable non-woven fabric backed, non-crystalline corrosion prevention and sealing polymer which can be directly applied to dry ferrous or non ferrous surface.



### FEATURE

#### Cold Elastic:

- ☐ Auto tightening wraps & Self fusion overlaps

#### Tolerant Preparation:

- ☐ Min. St2 surface preparation by hand tool

#### Coatable Backing:

- ☐ Can be coated with various colors & signs

#### Weather Resistant:

- ☐ Pass ageing & UV resistance test

#### Easy Application:

- ☐ Conform to irregular shapes

#### Excellent Performance:

- ☐ 95% coverage rate peeling off after 24H

#### Apply to various substrate:

- ☐ Excellent adhesion to PP, PE, FBE, concrete, glass & steel

### APPLICATION RANGE



Corrosion prevention & sealing for steel pipelines.



Corrosion prevention & sealing for steel structure



Corrosion prevention & sealing for flange



Corrosion prevention & sealing for bolt



Corrosion prevention & sealing for oil & gas station



Corrosion prevention & sealing for outdoor pipelines

MAIN PROPERTIES

| Item                                                | Value                             | Standard                 |
|-----------------------------------------------------|-----------------------------------|--------------------------|
| Temperature Range(°C)                               | -30°C~70°C                        | N/A                      |
| Drip Resistance( $T_{max}+20^{\circ}\text{C}$ ,48h) | No Dripping                       | ISO 21809-3-2016 Annex K |
| Brittle Temperature(-50°C)                          | No Brittle                        | ISO 11357-2              |
| Impact Resistance(With Paint,5J)                    | No Holiday                        | ISO 21809-3-2016 Annex D |
| Peel Strength(To Steel, 23°C)                       | $\geq 0.2\text{N/mm}$             | ISO 21809-3-2016 Annex H |
| Peel Strength(To Substrate, 23°C)                   | $\geq 0.2\text{N/mm}$             | ISO 21809-3-2016 Annex H |
| Specific Electrical Insulation Resistance           | $\geq 10^{10}\Omega\cdot\text{m}$ | ISO 1853-2018            |
| Peel Strength After 600H UV Resistance              | $\geq 85\%$                       | ISO 4582-2007            |
| Salt Spray Resistance(500H)                         | No Corrosion Detected             | ISO 7253-1996            |

APPLICATION CASE



Bolts Corrosion Prevention In Formosa Plastic



Gas Station Corrosion Prevention In China Resources



Valve Chamber Application Beijing Gas(Before Corrosion Prevention)



Valve Chamber Application Beijing Gas(Before Corrosion Prevention)

## ANCORRO VE, VE Filler & VE Paste



ANCORRO VE, VE Filler & VE Paste are corrosion prevention polymer specific R & D for underground pipeline & irregular structure. It adopts raw materials imported from Germany with non-curing & unique cold flow features.

### APPLICATION RANGE

Underground Pipeline, Welding Joint, Valve & Tee

### FEATURE

- **Easy Operating** /Min. St2 surface preparation by hand tool
- **Easy Bonding** /Suits for steel, PE & cement etc
- **Over 30 years sealing service life**



### 主要性能指标

### MAIN PROPERTIES

| Item                                              |                | Value                  | Standard                 |
|---------------------------------------------------|----------------|------------------------|--------------------------|
| Temperature Range                                 |                | -45~90°C               | N/A                      |
| Water Absorption                                  |                | ≤ 0.03%                | ISO 21809-3-2016 Annex H |
| Specific Electrical Insulation Resistance At 23°C |                | ≥ 10 <sup>10</sup> Ω·m | ISO 21809-3-2016 Annex F |
| Drip Resistance                                   |                | No Dripping            | ISO 21809-3-2016 Annex K |
| Peel strength                                     | To Steel(23°C) | ≥ 0.3N/mm              | ISO 21809-3-2016 Annex H |
|                                                   | To PE(23°C)    |                        | ISO 21809-3-2016 Annex H |
| 10% NaOH Resistance(23°C)                         |                | No Corrosion Detected  | ISO 175-2010             |
| 3% NaCl Resistance(23°C)                          |                | No Corrosion Detected  | ISO 175-2010             |



Corrosion prevention for underground flange & valve



Corrosion prevention for underground pipeline & welding joint

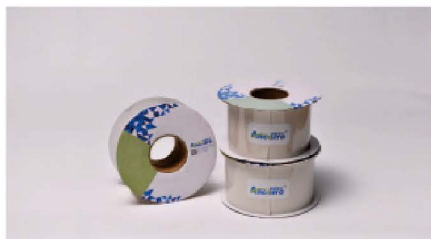


Corrosion prevention for tee & elbow



Corrosion prevention for storage tank chime

## ANCORRO VE Subsea



ANCORRO VE Subsea is an new corrosion prevention & sealing polymer specific R & D for submerged or condensing pipe or pipe fittings. It has unique cold elasticity and moisture resistance and will never curing with auto tightening and excellent sealing performance.

### APPLICATION RANGE

Pipe, flange, valve & steel structure on vessel, ocean platform, offshore winder power station & wharf.

### FEATURE

- **Easy Application**/Min. St2 surface preparation by hand tool
- **Cold Elastic** /Auto tightening wraps with excellent sealing performance
- **Moisture Resistant**/Excellent moisture absorption & isolation performance
- **Weather Resistant**/Stable chemical property with over 30 year service life



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FOR VIDEO



Ancorro VE For  
Corrosion Prevention & Sealing

### MAIN PROPERTIES

| Item                                                           | Value                                                                                                                    | Standard          |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------|
| Temperature Range                                              | -20~50°C                                                                                                                 | —                 |
| Drip Resistance ( $T_{max} + 20^{\circ}\text{C}, 48\text{h}$ ) | No Drip Resistance                                                                                                       | ISO21809-3annex J |
| Peel Strength & Coverage Rate(To Steel)                        | <div>23°C <math>\geq 0.04\text{N/mm}, \geq 95\%</math></div> <div>50°C <math>\geq 0.02\text{N/mm} \geq 95\%</math></div> | ISO21809-3annex D |
| 3% NaCl Resistance                                             | No Corrosion Detected                                                                                                    |                   |
| Salt Spray Resistance                                          | No Corrosion Detected                                                                                                    | ISO21809-3annex D |
| Impact Resistance                                              | $\geq 15\text{J}$                                                                                                        | ISO21809-3:2016   |



Corrosion prevention for offshore wind power



Corrosion prevention for LNG storage tank



Corrosion prevention for wharf



Corrosion prevention for bridge & vessel



## GFRP Mechanized Prefabrication Technology



GFRP Mechanized Prefabrication Technology for Pipeline Directional Crossing By HDD

- ☐ Patented technology
- ☐ Meets SY/T6968, SY/T7368 & Q/SY1477
- ☐ Flame polarization, roughening & one-step epoxy FRP prefabrication
- ☐ Mechanized prefabrication, no overlapping & forming as a whole on the 3LPE surface
- ☐ Stable engineering quality
- ☐ High engineering efficiency
- ☐ Over 50km successful application
- ☐ Pass the test certificate of NGF, SHFRP & TGRI of CNPC

### MAIN PROPERTIES

| Item                                    | Value      | Standard         |
|-----------------------------------------|------------|------------------|
| Scratch Resistance(23°C±2°C, 50kg)      | ≤500μm     | ISO 12137-2-1997 |
| Abrasion Resistance By falling abrasive | ≥3L/μm     | ASTM D4060-2010  |
| Barcol Hardness(23°C)                   | ≥30HBa     | ASTM D2583-2013  |
| Curving Strength(1°, 23°C±2°C)          | No Crack   | ISO1519-2011     |
| Impact Strength(23°C±2°C,8J)            | No Holiday | ISO1519-2011     |
| Bonding Strength To PE(23°C±2°C)        | ≥3.5MPa    | ISO 4624-2016    |

# Vacuum Composite Kit

- The worldwide 1st set of composite materials kit (vacuum method) for repair & reinforce
- Patented technology
- No shutoff, No Fire & free from welding
- Meets ASME PCC-2 & ISO TS24817
- Standardized product with stable performance & better mechanical property
- Pass the test certificate of TUV & SHFRP
- Over 10,000 sets successful application



## APPLICATION RANGE

Repair & reinforce for oil, gas & chemical pipeline with metal loss defect depth ≤ 80% of wall thickness

| Item                        | Value                 | Standard         |
|-----------------------------|-----------------------|------------------|
| Width                       | 100mm、300mm           | -                |
| Temperature Range           | -20 ~80 °C            | -                |
| Barcol Hardness(23°C)       | ≥30HBa                | ASTM D 2583-2013 |
| Tensile Strength            | ≥720MPa               | ISO 527-5-2009   |
| Elastic Modulus In Tension  | ≥30GPa                | ISO 527-5-2009   |
| Interlaminar Shear Strength | ≥30MPa                | ISO 1922-2012    |
| Breaking Elongation         | ≥1.5%                 | ISO 1421-1998    |
| Volume Resistivity          | ≥10 <sup>12</sup> Ω·m | ISO 13931-2013   |
| Fiber Content               | ≥50%                  | ISO 11667-1997   |



## Leak-Stop Kit



Leak-Stop Kit is specific R & D for the urban gas pipeline ( $\leq 3\text{kg}$  &  $\leq \text{DN}100$ ) & threaded connector without shutoff & fire

### APPLICATION RANGE

Small-bore PE or steel pipeline & threaded connector

### MAIN PROPERTIES

- Easy operation & can be completed within 30 minutes
- Operating under pressure without shutoff & fire



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## Gas-Leak Repair Technology

- 10Mpa Max. pressure
- Operating under pressure without shutoff & fire
- Suits for flange & other irregular structure reinforcing
- No external pressure acting onto the flange (insulating joint) during application
- Available sealant filling repeatedly
- No adverse effect for joint insulation
- Reliable sealing effect over 10 years



## 四川北尚新材料科技有限公司

四川北尚新材料科技有限公司是德源集团下属子公司，生产研发基地位于成都经济技术开发区，专业从事粘弹性防腐新材料、补强修复新材料研究、生产。

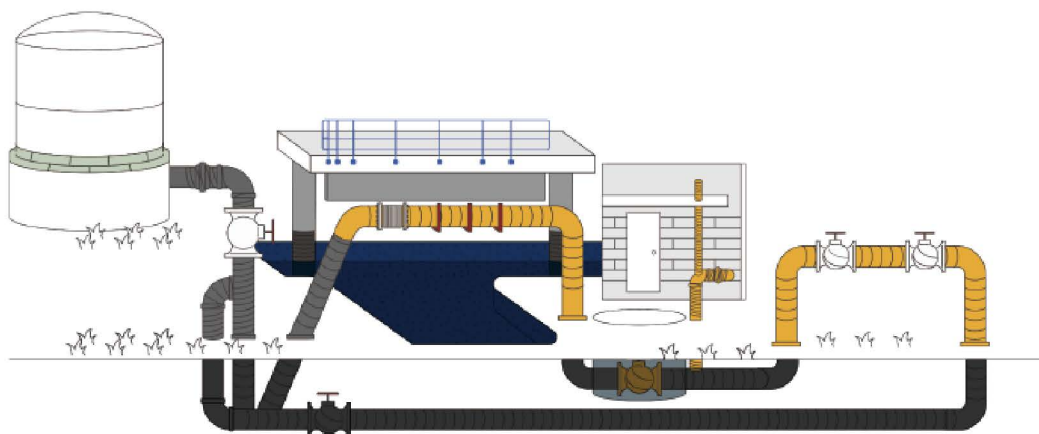
公司是成都市新材料企业，拥有专业的技术研发团队和生产设施，通过了ISO9001、14001、18001等多项质量体系认证，紧密贴合客户需求，开发生产了粘弹性防腐胶带、自融合防腐胶带、易涂装防腐胶带、定向钻穿越环氧玻璃钢保护材料、管道补强修复材料。广泛应用于石油天然气管道、城市燃气、石油化工、电力、市政、港口码头等工业领域防腐保护。



### 典型客户



## 产品介绍 PRODUCT



| 序号 | 产品                 | 应用范围                                                         |
|----|--------------------|--------------------------------------------------------------|
| 1  | 自融合防腐胶带            | 穿墙管、穿楼板管、出入地管、钢塑转换头、三通、弯头、焊缝、丝扣、架空管防腐                        |
| 2  | 易涂装粘弹体防腐胶带         | 过桥管、架空管、阀门、法兰、异型构件、出汗管防腐                                     |
| 3  | 弹性粘弹体防腐胶带          | 阀门、法兰、螺栓等异形构件                                                |
| 4  | 粘弹体防腐胶带            | 埋地管、埋地管焊缝补口、埋地三通弯头、埋地阀门、埋地法兰、储罐边缘板、出入地管防腐                    |
| 5  | 水下粘弹体防腐胶带          | 水下及潮湿环境构件                                                    |
| 6  | 定向钻穿越环氧玻璃钢保护材料     | 定向钻穿越耐磨保护机械自动化施工                                             |
| 7  | 真空法复合材料            | 石油、天然气、化工管道缺陷深度 $\leq 80\%$ 壁厚的金属损失补强                        |
| 8  | 中低压管道堵漏维修包         | 中低压小口径 ( $\leq 3\text{kg}$ , $\leq \text{DN}100$ ) 管道、丝扣接头修复 |
| 9  | 输气管道法兰（绝缘接头）渗漏修复技术 | 输气管道法兰、绝缘接头渗漏不动火带压修复                                         |

## 自融合防腐胶带



自融合防腐胶带是针对小口径( $\leq DN100$ )户外管道研发及生产的新型高分子防腐材料,具有优异的冷弹性和自融合特性,操作简单、防腐性能优异。

### 适用范围

#### APPLICATION RANGE

\*穿墙管、穿楼板管、出入地管、钢塑转换头、架空管

### 性能特点

#### FEATURE

- 冷弹性/拉伸至1.5倍缠绕,自动回弹收紧,充分保证防腐密封效果
- 自融合/胶带搭接部位可自融合,缠绕完毕后成为一个整体
- 耐候性/可用于户外环境,使用寿命达20年以上



扫码可看  
操作视频



可拉伸粘弹体胶带,为防腐密封而生

### 主要性能指标

#### MAIN PROPERTIES

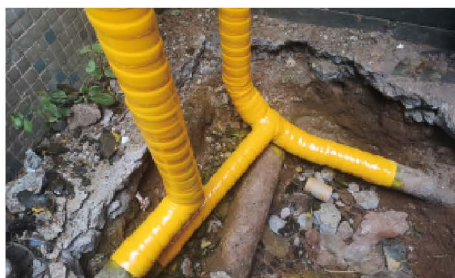
| 测试项目         |         | 指标值                        | 测试标准               |
|--------------|---------|----------------------------|--------------------|
| 应用温度         |         | -30~70℃                    | —                  |
| 滴垂(90℃, 48h) |         | 不滴垂                        | GB/T 51241-2017附录A |
| 体积电阻率        |         | $\geq 10^8 \Omega \cdot m$ | GB/T 1410-2006     |
| 剥离强度(对钢/对PE) |         | $\geq 2N/cm$               | GB/T 2792-2014     |
| 耐紫外线(600h)   | 剥离强度保持率 | $\geq 85\%$                | GB/T 23257-2017附录J |
| 耐盐雾(500h)    |         | 无起泡、无剥离                    | GB/T 1771-2007     |



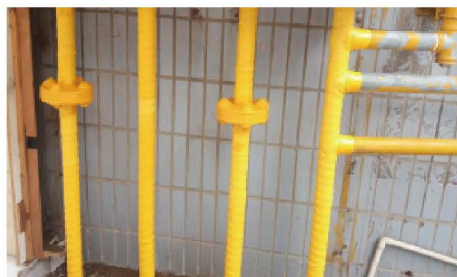
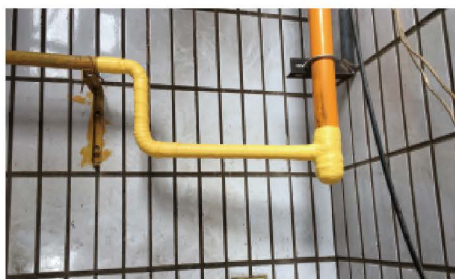
穿墙、穿楼板管防腐应用案例



钢塑转换、出入地管防腐应用案例



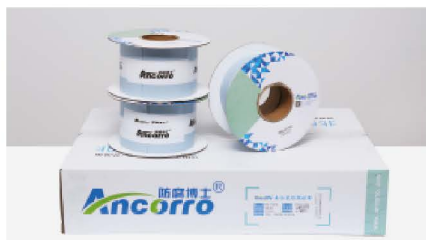
三通、弯头防腐应用案例



焊缝、丝扣防腐应用案例



## 易涂装粘弹体防腐胶带



易涂装粘弹体防腐胶带是针对架空管道、阀门、法兰及异型设施研发及生产的新型高分子防腐材料,具有易于成型、易于涂装、自融合等特点。

### 适用范围

#### APPLICATION RANGE

\*过桥管、架空管、阀门、法兰、异型构件、出汗管

### 性能特点

#### FEATURE

- 易成型/胶带柔软,易于粘贴涂装在各种异型构件表面
- 易涂装/胶带表面可根据应用环境涂装各种标识涂层
- 自融合/粘贴涂敷成型后,融合成一体
- 密封性/隔绝水分及空气,可使用20年以上



扫码可看  
操作视频



可拉伸粘弹体胶带,为防腐密封而生

### 主要性能指标

#### MAIN PROPERTIES

| 测试项目           |         | 指标值                        | 测试标准               |
|----------------|---------|----------------------------|--------------------|
| 应用温度           |         | -30~70°C                   | —                  |
| 滴垂 (90°C, 48h) |         | 不滴垂                        | GB/T 51241-2017附录A |
| 体积电阻率          |         | $\geq 10^8 \Omega \cdot m$ | GB/T 1410-2006     |
| 剥离强度 (对钢/对PE)  |         | $\geq 2N/cm$               | GB/T 2792-2014     |
| 耐紫外线 (600h)    | 剥离强度保持率 | $\geq 85\%$                | GB/T 23257-2017附录J |
| 耐盐雾 (500h)     |         | 无起泡、无剥离                    | GB/T 1771-2007     |



过桥、架空、出汗管防腐应用案例



阀井阀门防腐应用案例



法兰、场站防腐应用案例



异型构件防腐应用案例



## 弹性粘弹体防腐胶带

弹性粘弹体防腐胶带是四川北尚新材料科技有限公司的专利产品，专业为重腐蚀环境下钢结构、管道、螺栓、法兰、异型设施防腐保护开发。具有表面处理要求低、异型表面易于粘贴、胶带搭接部位自融合、现场施工质量易于控制、外表易于涂装标识色的特点。可缠绕、粘贴在金属、混凝土等多种材料表面，提供优异的防水防腐密封保护，使用寿命长达二十年以上。



### 产品特点 FEATURE

- 冷弹性：** ○ 胶带弹性拉伸缠绕包覆，回弹力使得胶带紧密粘贴在管道表面，搭接部位自融合，完全避免普通冷缠胶带存在的粘接不良和搭接失效问题。
- 表面处理要求低至St2级：** ○ 胶带可直接在St2级的金属表面施工安装，可粘贴施工、可缠绕包覆。
- 易于涂装：** ○ 特殊设计的胶带外表面，方便现场涂装，可根据需要涂装各种标识色或其它外护涂料。
- 耐候性好：** ○ 500h以上的高低温老化和紫外老化测试，可长期使用于露天环境。
- 异型设施易于施工：** ○ 粘贴在法兰、螺栓、或其它异型设施表面，无须使用防腐膏填平，施工简单方便、成本更经济。
- 防水防腐密封性能优异：** ○ 特殊改性的粘弹体胶层，24小时剥离覆盖率在95%以上，可彻底阻断水份渗入。
- 适用于多种材质：** ○ 可用于金属、混凝土等多种材质，提供二十年以上的防水防腐密封保护。

### 应用领域 APPLICATION RANGE



钢质管道防腐密封保护



钢结构防腐密封保护



法兰防腐密封保护



螺栓防腐密封保护



阀室管道及异型设施防腐



过桥管防腐保护

性能指标  
PERFORMANCE INDEX

| 测试项目                 | 指标值                   | 测试标准                 |
|----------------------|-----------------------|----------------------|
| 应用温度 (°C)            | -30℃~70℃              |                      |
| 滴垂 (90℃, 48h)        | 不滴垂                   | ISO 21809-3: 2016附录J |
| 玻璃化转变温度 (≤-50℃)      | 无脆裂                   | GB/T 5470-2008       |
| 冲击强度 (含漆层, 5J)       | 无漏点                   | GB/T 23257-2009附录K   |
| 剥离强度 (N/cm) , 对钢     | ≥2N/cm                | GB/T 2792-2014       |
| 剥离强度 (N/cm) , 对背材    | ≥2N/cm                | GB/T 2792-2014       |
| 电阻率                  | ≥10 <sup>13</sup> Ω·m | GB/T 1410-2006       |
| 耐紫外线 (600小时) 剥离强度保持率 | ≥85%                  | SY/T 0414-2007       |
| 耐盐雾 (500小时)          | 无起泡、无剥离、无生锈           | GB/T 1771-2007       |

典型应用  
TYPICAL APPLICATION



台湾台塑工厂螺栓防腐



华润燃气公司应用



北京燃气调室应用 (防腐前)



北京燃气调室应用 (防腐后)

## 粘弹体防腐材料



粘弹体防腐材料是针对埋地管线及异型设施防腐而研发及生产的新型高分子防腐材料,包括粘弹体防腐胶带、玻纤粘弹体防腐胶带、粘弹体防腐膏和粘弹体防腐剂等系列产品,采用德国进口原材料生产,永不固化,具有独特的冷流特性。

### 适用范围

#### APPLICATION RANGE

\*埋地管、埋地管焊缝补口、埋地三通弯头、埋地阀门、埋地法兰、储罐边缘板、出入地管

### 性能特点

#### FEATURE

- 易于施工/表面除锈等级要求低至ST2级,无需喷砂除锈
- 易于粘接/冷缠后即可粘接在钢材、PE、水泥等多种基材表面
- 防水密封性能优异,使用寿命超过30年



扫码可看  
操作视频



可拉伸粘弹体胶带,为防腐密封而生

### 主要性能指标

#### MAIN PROPERTIES

| 测试项目                 |              | 指标值                    | 测试标准                |
|----------------------|--------------|------------------------|---------------------|
| 应用温度                 | AC2001 (常温)  | -45~70℃                | —                   |
|                      | AC2001H (高温) | -45~90℃                | —                   |
| 吸水率                  |              | ≤ 0.03%                | GB/T 23257-2017 附录G |
| 体积电阻率                |              | ≥ 10 <sup>13</sup> Ω·m | GB/T 1410-2006      |
| 滴垂 (最高应用温度+20℃, 48h) |              | 不滴垂                    | GB/T 51241-2017 附录A |
| 剥离强度 (23℃)           | 对钢           | ≥ 2N/cm, 覆盖率≥95%       | GB/T 23257-2017 附录K |
|                      | 对PE          | ≥ 2N/cm, 覆盖率≥95%       | GB/T 23257-2017 附录K |
| 10% 氢氧化钠 (常温, 90d)   |              | 涂层表面无变化                | GB/T 23257-2017 附录I |
| 3% 氯化钠试验 (常温, 90d)   |              | 涂层表面无变化                | GB/T 23257-2017 附录I |



埋地法兰、阀门防腐应用案例



埋地管道、焊缝补口防腐应用案例



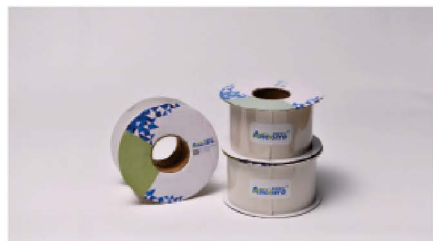
埋地三通、弯头防腐应用案例



储罐边缘板防腐应用案例



## 水下粘弹体防腐胶带



水下粘弹体防腐胶带是针对水下及潮湿环境管件防腐而研发生产的新型高分子防腐材料，具有独特的冷弹特性及阻水特性，永不固化，自动回弹收紧，充分保证防腐密封效果。

### 适用范围

#### APPLICATION RANGE

海上风电、海上石油、LNG、桥梁、港口码头、水务、船舶等水下及潮湿环境中的钢质/PE管件、钢构件、法兰、阀门等

### 性能特点

#### FEATURE

- 易于施工/表面处理要求低至ST2级，无需喷砂除锈
- 冷弹性/优异的拉伸性能，自动回弹收紧，充分保证防腐密封效果
- 阻水性/优异的内部转水性及外部阻水性，防止基材锈蚀
- 外护方便牢固/水固化外护，抗冲击及耐压痕性能强悍
- 耐候性/化学性质稳定，适用寿命高达30年



扫码可看  
操作视频



可拉伸粘弹体胶带，为防腐密封而生

### 主要性能指标

#### MAIN PROPERTIES

| 测试项目                      |      | 指标值                                 | 测试标准              |
|---------------------------|------|-------------------------------------|-------------------|
| 应用温度                      |      | -20~50°C                            | —                 |
| 滴垂 (70°C, 48h)            |      | 不滴垂                                 | ISO21809-3annex J |
| 剥离强度及覆盖率 (对 钢)            | 23°C | $\geq 0.4\text{N/cm}$ , $\geq 95\%$ | ISO21809-3annex D |
|                           | 50°C | $\geq 0.2\text{N/cm}$ , $\geq 95\%$ |                   |
| 浸泡3%NaCl中                 |      | 剥离强度及覆盖率保持率 $\geq 85\%$             | ISO21809-3annex D |
| 1000mg/m <sup>2</sup> 盐雾中 |      | 剥离强度及覆盖率保持率 $\geq 85\%$             | ISO21809-3annex D |
| 抗冲击性能 (23°C)              |      | $\geq 15\text{J}$                   | ISO21809-3: 2016  |



海上风电适用场景



LNG适用场景



港口码头适用场景



桥梁船舶适用场景



## 定向钻穿越环氧玻璃钢保护材料



定向钻环氧玻璃钢机械化预制技术

- 专利技术,通过四川省科技成果鉴定
- 性能符合SY/T6968、SY/T7368、Q/SY1477标准要求
- 火焰极化、拉毛处理、环氧玻璃钢预制一次成型
- 机械预制,无搭接,在3LPE表面构成一个整体
- 保护层施工质量性能稳定,不受施工人员影响
- 施工效率高,可在工程现场及工厂预制
- 50公里以上成功应用
- 通过国家玻璃纤维产品质量监督检验中心、上海玻璃钢测试中心、中石油管道研究中心、中石油防腐保温质量监督检验中心等权威机构测试认证

### 主要性能指标

#### MAIN PROPERTIES

| 测试项目                  | 指标值     | 测试标准               |
|-----------------------|---------|--------------------|
| 耐划伤, (23°C±2°C, 50kg) | ≤500μm  | SY/T 4113-2007     |
| 耐磨性, (落砂法)            | ≥3L/μm  | SY/T 0315-2013 附录H |
| 巴氏硬度 (23°C)           | ≥30HBa  | GB/T 3854-2017     |
| 抗弯曲 (1°, 23°C±2°C)    | 无裂纹     | SY/T 6854-2012附录C  |
| 冲击强度 (23°C±2°C, 8J)   | 无漏点     | SY/T 0315-2013附录E  |
| 对PE粘接强度 (20°C±2°C)    | ≥3.5MPa | SY/T 6854-2012附录A  |

## 真空法复合材料补强修复技术

- 全球第一套真空法复合材料补强修复材料
- 专利技术, 获得国家发明专利
- 不停输、不动火、免焊接
- 符合ASME PCC-2和ISO TS24817标准要求
- 产品性能标准化, 安装性能更稳定, 力学性能更优异
- 产品通过德国TUV、国家玻璃钢测试中心等权威机构测试认证
- 10000套以上成功应用, 为管道安全保驾护航



### 适用范围

#### APPLICATION RANGE

石油、天然气、化工管道缺陷深度 $\leq 80\%$ 壁厚的金属损失补强

| 测试项目        | 指标值                                  | 测试标准             |
|-------------|--------------------------------------|------------------|
| 幅宽          | 100mm、300mm                          | -                |
| 适用温度        | -20 ~ 80 °C                          | -                |
| 巴氏硬度 (23°C) | $\geq 30\text{HBa}$                  | ASTM D 2583-2013 |
| 拉伸强度        | $\geq 720\text{MPa}$                 | ISO 527-5-2009   |
| 受拉弹性模量      | $\geq 30\text{GPa}$                  | ISO 527-5-2009   |
| 层间剪切强度      | $\geq 30\text{MPa}$                  | ISO 1922-2012    |
| 断裂伸长率       | $\geq 1.5\%$                         | ISO 1421-1998    |
| 体积电阻率       | $\geq 10^{12} \Omega \cdot \text{m}$ | ISO 13931-2013   |
| 纤维含量        | $\geq 50\%$                          | ISO 11667-1997   |



## 中低压堵漏维修包



中低压堵漏维修包是针对城市燃气中低压小口径 ( $\leq 3\text{kg}$ ,  $\leq \text{DN}100$ ) 管道、丝扣接头带压堵漏研发生产, 操作简单快捷, 无需停输和动火。

### 适用范围

### APPLICATION RANGE

小口径PE管、钢管管道及丝扣接头带压堵漏

### 主要性能指标

### MAIN PROPERTIES

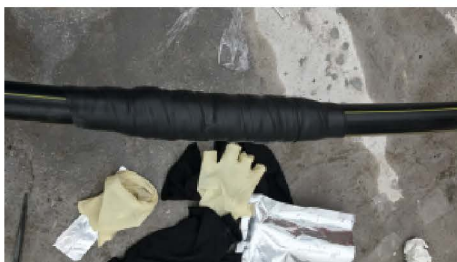
- 操作简单快捷, 30分钟内即可完成堵漏修复;
- 不停输, 不动火, 带压操作;



扫码可看  
操作视频



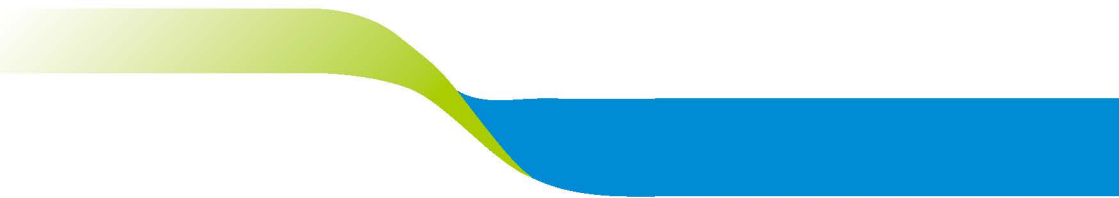
可拉伸粘弹体胶带, 为防腐密封而生



## 输气管道法兰(绝缘接头)渗漏不动火带压修复技术

- 最高压力10Mpa
- 不动火带压施工,不影响管道运行
- 根据法兰(绝缘接头)形状进行加固,可用于其它异型结构,使用灵活方便
- 与金属夹具不同,加固过程不会对在役法兰(绝缘接头)施加外部应力
- 永不固化粘性密封胶,可重复加注
- 绝缘接头封堵,不影响接头的绝缘性能
- 封堵效果可靠,2009年封堵的法兰,至今无渗漏





Authorized Distributor



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