



STRETCH VE  
COATABLE VE  
BOLT VE  
SUBSEA VE  
SELFUSION VE

# ANCORRO VE FOR CORROSION PREVENTION

Ancorro Co., Ltd.

Website: [www.ancorro.com](http://www.ancorro.com)

E-mail: [info@ancorro.com](mailto:info@ancorro.com)

Tel. No.: +86 28 6985 9217

Address: No.117, South 3<sup>rd</sup> Road, Eco-Tech Development Zone, Longquanyi District, Chengdu, Sichuan, China

All information contained in this brochure is to be used as a guide and is subject to change without prior notice.

DEYUAN®, PIGPROX®, ANCORRO®, STRONGPIPE® are the registered trademarks of Deyuan Pipeline Technology Co., Ltd.





# ABOUT DEYUAN

Deyuan Pipeline Technology Co. Ltd., has dedicated over two decades to the oil and gas pipeline industry since 2003. As a one-stop provider, we offer comprehensive integrated solutions for oil and gas pipeline integrity management. We've established a dynamic research and development centre alongside an advanced production base in Chengdu, China. Our portfolio includes three key series: "PIGPRO<sup>®</sup>" ILI system technology, "ANCORRO" corrosion prevention materials, and "STRONGPIPE" reinforcement products. We consistently offer clients innovative, high performance products and services, executed with meticulous attention to detail, conforming to stringent industry standards.

## PIGPRO<sup>®</sup> ILI TECHNOLOGY

- ① EDDY CURRENT ILI TOOLS
- ② PIG TRACKING SYSTEM

## ANCORRO VE FOR CORROSION PREVENTION

- ③ BOLT VE
- ④ COATABLE VE
- ⑤ STRETCH VE
- ⑥ SUBSEA VE
- ⑦ ANCORRO VE
- ⑧ OUTER SHIELD

## STRONGPIPE REINFORCEMENT PRODUCTS

- ⑨ VACCUM COMPOSITE KIT
- ⑩ VACCUM EPOXY-FILLED SHELLS







# ABOUT ANCORRO

Ancorro is dedicating to offer an extensive full array products applied for underground, aboveground & offshore including corrosion prevention, leak stop, repair & reinforce and mechanical protection. Our commitment extend to to safeguard oil & gas field, oil & gas transportation system, urban gas network, petrochemical industry, chemical industry, offshore infrastructure, ports & wharf, electrical power industry, municipal infrastructure and other industry.

At Ancorro, our pledge revolves around both safeguarding our customers' valuable assets while generating substantial for their operations by constant innovation. In year 2014, we invented the handy “vacuum composite kit” for repair & reinforce and released superior “stretchable visco elastic wrap” in year 2019. Building upon these legacy, we introduced quick protection solution “BoltVE” for aboveground bolts in year 2022. Our commitment to excellence is further underscored by our possession of ISO 9001, 14001 and 45001 system certifications, as well as product endorsements from DNV, Charter and SGS align with ISO 21809-3, thus empowering ANCORRO to consistently produce dependable and unwavering products.

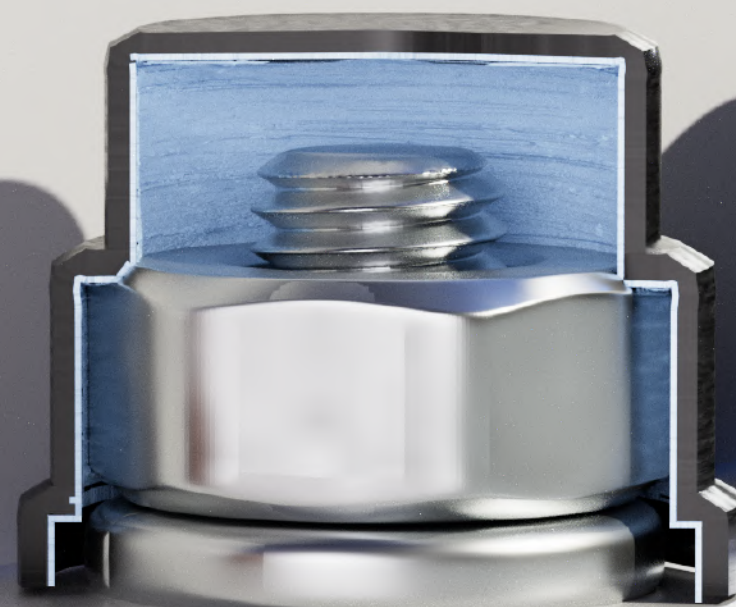


## • Products

Category	Products	Application Examples
Aboveground	Ancorro BoltVE	Bolts & Nuts
	Ancorro VE Coatable	Overhead Pipelines, Aboveground Valves, Irregular Structures, Tanks Chime
	Ancorro VE SelfFusion	Through-Wall Pipelines, Soil to Air Risers, Joints, Overhead Pipelines
Underground	Ancorro VE Stretch	Straight Pipelines, Field Joints, Tees & Bends, Soil To Air Risers
	Ancorro VE	Straight Pipelines, Field Joints, Cathodic Welding, Valves
Offshore	Ancorro VE Subsea	Condensing Pipelines, Jetty Piles
Sealing	Ancorro VE Paste & Filler	Irregularities & Gaps

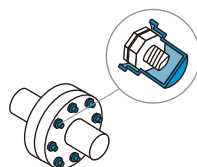


# Ancorro BoltVE

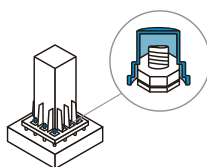


Ancorro BoltVE is a quick corrosion prevention solution for aboveground bolts. It offers nut-type installation with weather resistant & friendly maintenance to protect bolts for long term.

## • Application Examples



Flange Bolts



Irregular Structure Bolts

## • Features



**Easy Apply**  
Nut-type installation



**Total Sealing**  
Bolts shield + VE filler



**Friendly Maintenance**  
Easy for filler replace

## • Properties

Item	Value	Standard
Service Temperature Range	-30°C ~ +70°C	--
Drip Resistance (90°C, 48hours)	No Dripping	ISO 21809-3: 2016
UV Resistance (600hours)	No corrosion detected	ISO 4582: 2007
Salt Spray Resistance (500hours)	No corrosion detected	ISO 7253:1996

## • Case



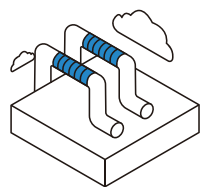


# Ancorro VE Coatable

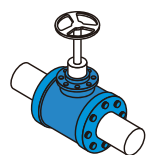


Ancorro VE Coatable is a flexible polymer which can be coated with specific functional paintings to protect aboveground pipelines, irregular structures, valves, flanges & tank chime etc.

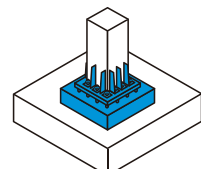
## • Application Examples



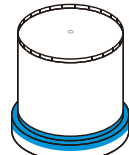
Overhead Pipelines



Aboveground Valves



Irregular Structures



Tank Chime

## • Features



**Freely Moulding**  
Conforms to irregular structure



**Easy Coating**  
Coatable with functional paintings



**Self Fusion**  
Self-fuse into one pieces within hours

## • Properties

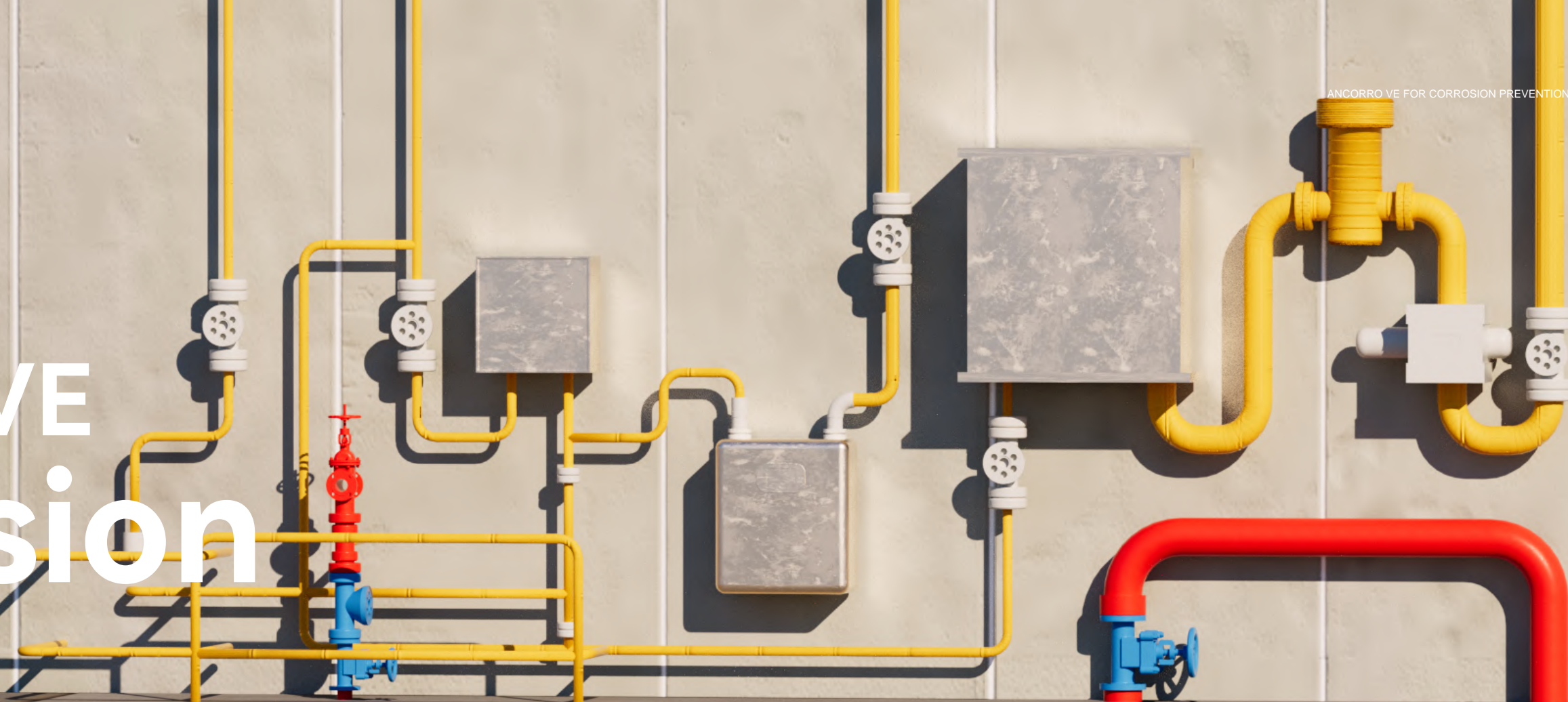
Item		Value	Standard
Service Temperature Range		-30°C ~ +70°C	-
Drip Resistance (90°C, 48hours)		No Dripping	ISO 21809-3: 2016
Peel Strength (To Steel)	23°C	≥ 0.2N/mm, ≥ 95% coverage	ISO 21809-3: 2016
	70°C	≥ 0.02N/mm, ≥ 95% coverage	
UV Resistance (600hours)		Peel strength ≥ 85%	ISO 4582: 2007
Salt Spray Resistance (500hours)		No corrosion detected	ISO 7253: 1996

## • Case



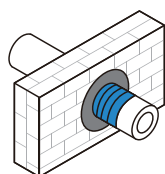


# Ancorro VE SelfFusion

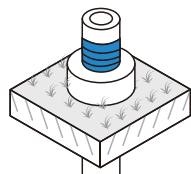


ANCORRO VE SelfFusion is a stretchable EPDM rubber backed, non-crystalline corrosion prevention and sealing polymer integrated with mechanical protection to protect above-ground small-bore pipelines(DN≤100mm) & fittings.

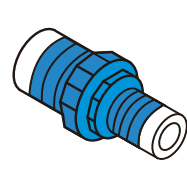
## • Application Examples



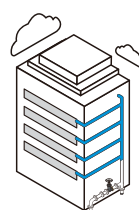
Through-Wall Pipelines



Soil to Air Risers



Joints



Overhead Pipelines

## • Features



**Cold Elastic**

Stretchable backing creates self-tensions



**Self Fusion**

Self-fuse into one piece after wrap



**Weather Resistance**

UV resistance & 20-year service life

## • Properties

Item		Value	Standard
Service Temperature Range		-30 ~ +70°C	—
Drip Resistance (90°C, 48hours)		No Dripping	ISO 21809-3: 2016
Peel Strength (To Steel)	23°C	≥ 0.3N/mm, ≥ 95% coverage	ISO 21809-3: 2016
	70°C	≥ 0.03N/mm, ≥ 95% coverage	
Elongation at Break		≥ 500 %	ISO 527-2: 2012
UV Resistance (600hours)		Peel strength ≥ 85%	ISO 4582: 2007

## • Case



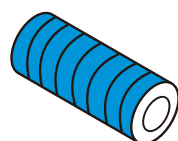


# Ancorro VE Stretch

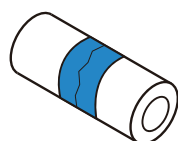


ANCORRO VE Stretch is a stretchable non-woven fabric backed, non-crystalline corrosion prevention and sealing polymer to protect pipelines, field joints, tees, bends, valves, flanges & soil to air risers etc.

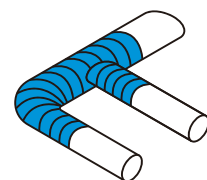
## • Application Examples



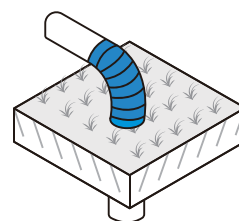
Straight Pipelines



Field Joints



Tees & Bends



Soil to Air Risers

## • Features



**Cold Elastic**  
Elastic resilience creates tensions



**Coatable Backing**  
Coatable with functional paintings



**Self Fusion**  
Self-fuse on overlaps

## • Properties

Item		Value	Standard
Service Temperature Range		-45°C ~ +70°C	-
Drip Resistance (90°C, 48hours)		No Dripping	ISO 21809-3: 2016
Peel Strength (To Steel)	23°C	≥ 0.3N/mm, ≥ 95% coverage	ISO 21809-3: 2016
	70°C	≥ 0.03N/mm, ≥ 95% coverage	
Impact Resistance with polymeric tapes		≥ 15J (23°C)	ISO 21809-3: 2016
Cathodic Disbondment (28days, 23°C & 70°C)		No holiday or disbondment	ISO 21809-3: 2016

## • Case



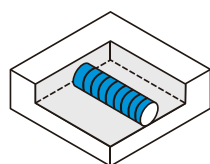


# Ancorro VE

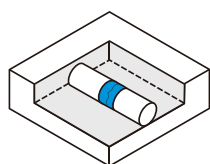


ANCORRO VE is a non-crystalline corrosion prevention and sealing polymer to protect underground pipelines, field joints, tees, bends, valves & flanges etc.

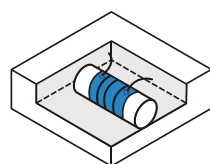
## • Application Examples



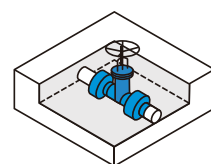
Straight Pipelines



Field Joints

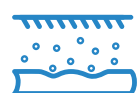


CP Points



Valves

## • Features



**Cold Flows**  
Self-heals small pin holes



**Easy Operation**  
No Primer & Min. St2 surface preparation



**Widely Adapted**  
Suits steel, PE, FBE & Cement etc

## • Properties

Item		Value	Standard
Service Temperature Range		-45°C ~ +70°C	-
Drip Resistance (90°C, 48hours)		No Dripping	ISO 21809-3: 2016
Peel Strength (To Steel)	23°C	≥ 0.3N/mm, ≥ 95% coverage	ISO 21809-3: 2016
	70°C	≥ 0.03N/mm, ≥ 95% coverage	
Specific Electrical Insulation Resistance (23°C)		≥ 10 <sup>10</sup> Ω·m <sup>2</sup>	ISO 21809-3: 2016
Impact Resistance with polymeric tapes (23°C)		≥ 15J	ISO 21809-3: 2016
Cathodic Disbondment (28days, 23°C & 70°C)		No holiday or disbondment	ISO 21809-3: 2016

## • Case



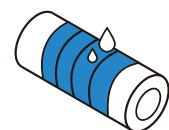


# Ancorro VE Subsea

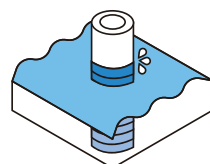


Ancorro VE Subsea is a stretchable non-woven fabric backed, non-crystalline polyolefin-based polymer for corrosion prevention on condensing or submerged ferrous and non-ferrous surfaces.

## • Application Examples



Condensing Pipelines



Submerged Pipelines

## • Features



**Wet Applied**  
Specific application on wet or submerged substrate



**Cold Elastic**  
Elastic resilience creates tensions



**Impregnated Backing**  
Formed one piece with moisture curing GRF

## • Properties

Item		Value	Standard
Service Temperature Range		-20 ~ +50°C	—
Drip Resistance (70°C, 48hours)		No Dripping	ISO 21809-3: 2016
Peel Strength (To Steel)	23°C	≥ 0.04N/mm, ≥ 95% coverage	ISO 21809-3: 2016
	50°C	≥ 0.02N/mm, ≥ 95% coverage	
3% NaCl Resistance (23°C, 90days )		No corrosion detected	ISO 175: 2010

## • Case



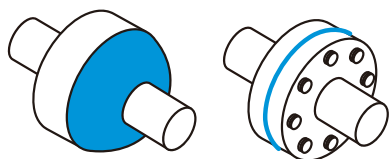


# Ancorro VE Paste & Filler

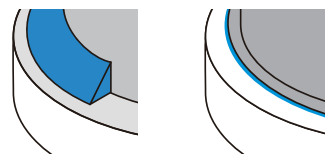


Ancorro VE Paste & Filler is non-crystalline corrosion prevention and sealing polymer to smooth irregularities & fill gaps.

## • Application Examples



Flanges



Tank Chime

## • Features



**Mouldable & Injectable**  
Mouldable paste & Injectable filler



**Permanent Liquid**  
No curing with permanent cold flows



**Prior**  
Prior to apply Ancorro wraps

## • Properties

Item		Value	Standard
Density	Paste	1.4 to 1.6g/cm <sup>3</sup>	ISO 1183-1: 2012
	Filler	1.2 to 1.5 g/cm <sup>3</sup>	
Service Temperature Range		-45°C ~ +70°C	—
Drip Resistance (90°C, 48hours)		No Dripping	ISO 21809-3: 2016
3% NaCl resistance (23°C, 90days)		No corrosion detected	ISO 175: 2010

## • Case

