



Ancorro VE For Corrosion Prevention & Sealing

# ANCORRO VE

PDS

## Description

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ANCORRO VE is a non-crystalline corrosion prevention and sealing polymer which can be directly applied to clean and dry ferrous and non-ferrous surfaces.

ANCORRO VE remains flexible and stress free, offers low permeability to water and gases/vapours, and is fully compatible with cathodic protection systems.

ANCORRO VE maintains low viscosity and does not cure, offering long term corrosion prevention.

Applications include underground pipes and pipe fittings, field joints, tees, elbows, valves and flanges.

### Features & Benefits

- \* Complies to ISO 21809-3
- \* Minimum St 2 surface preparation (by hand tool)
- \* Application can be automated
- \* Resistant to salts, acids & alkalis
- \* Excellent adhesion to PP, PE, FBE, concrete, glass and steel
- \* No primer is required
- \* Self-heals pinholes and small dents
- \* Non-toxic to the environment, safe to handle

## Application Notes

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- \* The surface should be clean and dry, free from oil, grease and loose dust. All mill scale is to be removed.
- \* Recommended application temperature of between +5°C and +45°C.
- \* Surface temperature to be 3°C above dew point.
- \* Surface preparation to minimum St 2 / SSPC SP 2. A roughness profile is not required.
- \* Degrease with Isopropanol or MEK/ACETONE. Do NOT use thinners.

## General Installation

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- \* Apply ANCORRO VE without tension.
- \* Remove the leading edge of the release liner and apply ANCORRO VE directly onto the substrate.
- \* Once anchored, continue to remove the release liner and apply without tension, avoiding air pockets.
- \* Start with a straight circumferential wrap and overlap the existing coating by 100mm.
- \* Continue spirally with a side overlap of 10mm, or straight wrap apply (circumference + 50mm) with a side overlap of 10mm.
- \* When a new roll is required, a minimum overlap of 50mm to the previous roll is recommended.
- \* Finish with a straight circumferential wrap (facing down) and overlap the existing coating by 100mm.

## Mechanical Protection

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- \* Required for circumferential compression, apply either polymeric tape or heat shrink sleeve.
- \* Apply after inspection. ANCORRO VE is to be visible by ~3mm at the start and finish point.
- \* Additional mechanical protection is recommended when lifting or moving pipes, or when impacted by direct load or sharp objects. If damage occurs, apply a patch to repair (100mm overlap) and re-apply mechanical protection.

## Inspection

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- \* The surface should be smooth, tight and contoured to follow the shape of the surface.
- \* There should be no air pockets, wrinkles or stretch marks.
- \* If required, inspect with a holiday detection test (5kV/mm + 5kV) before applying mechanical protection.

## Handling & Storage

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- \* Keep boxes upright and out of direct sunlight.
- \* Store indoors in a dry environment at temperatures less than 40°C.
- \* ANCORRO VE does not have a shelf life.

## Technical Properties

Color	light blue	NA
Thickness	$\geq 1.5\text{mm} / \geq 1.8\text{mm}$	ISO 21809-3:2016 Annex B
Density	1.4 to 1.6g/cm <sup>3</sup>	ISO 1183-1:2012 Method B
Temperature Range	-45°C to +70°C	NA
Drip Resistance ( $T_{\text{max}} + 20^\circ\text{C}$ )	no dripping (48hours)	ISO 21809-3:2016 Annex K
Glass Transition Temperature	$\leq -65^\circ\text{C}$	ISO 11357-2
Crystallization Temperature	no crystallization	ISO 11357-3
Holiday Detection Test	5 kV/mm + 5 kV - no holiday	ISO 21809-3:2016 Annex C
Adhesion test to steel, and to plant coating before & after thermal ageing, and before & after hot water immersion (100 days)	$23^\circ\text{C} \geq 0.3\text{N/mm}$ , $\geq 95\%$ coverage	ISO 21809-3:2016 Annex H, M.3 & I
	$T_{\text{max}} \geq 0.03\text{N/mm}$ , $\geq 95\%$ coverage	
Lap Shear Resistance	$23^\circ\text{C} \geq 0.03\text{N/mm}^2$ , coverage $\geq 95\%$	ISO 21809-3:2016 Annex J
	$T_{\text{max}} \geq 0.003\text{N/mm}^2$ , coverage $\geq 95\%$	
Impact Resistance with polymeric tape	$\geq 15\text{J}$ ( $23^\circ\text{C}$ )	ISO 21809-3:2016 Annex D
Indentation Resistance with polymeric tape (1.0Mpa) / HSS (10Mpa)	residual thickness $\geq 0.6\text{mm}$ ( $23^\circ\text{C}$ & $T_{\text{max}}$ )	ISO 21809-3:2016 Annex E
Cathodic Disbondment @ $23^\circ\text{C}$ & $T_{\text{max}}$	no holiday or disbondment (28 days)	ISO 21809-3:2016 Annex G & C
Specific Electrical Insulation Resistance	$\geq 10^{10} \Omega \cdot \text{m}^2(23^\circ\text{C})$	ISO 21809-3:2016 Annex F
10% NaOH resistance ( $23^\circ\text{C}$ for 90 days)	no corrosion detected	ISO 175:2010
3% NaCl resistance ( $23^\circ\text{C}$ for 90 days)	no corrosion detected	ISO 175:2010

## Order Information

Article No.	Dimensions	Box Packaging
1051	50mm x 10m x 1.5mm	12 rolls per carton
1110	100mm x 10m x 1.5mm	6 rolls per carton
1210	200mm x 10m x 1.5mm	2 rolls per carton
1220	200mm x 20m x 1.5mm	2 rolls per carton
2051	50mm x 10m x 1.8mm	12 rolls per carton
2110	100mm x 10m x 1.8mm	6 rolls per carton
2210	200mm x 10m x 1.8mm	2 rolls per carton
2220	200mm x 20m x 1.8mm	2 rolls per carton

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