



**TECNOLOGÍA TOTAL**  
INGENIERÍA EN INTEGRIDAD Y CORROSIÓN

**PETROLATUM TAPE COATING SYSTEM**  
**TECNOLATO**

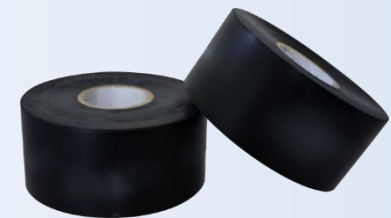
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## tecnolato

The tecnolato coating system is specially designed for the protection of overhead, buried and submerged pipelines and structures. This system consists of a layer of **tecnolato-primer**, a layer of **tecnolato-tape** and a finishing layer for mechanical protection with **tecnolato-shield** (polyethylene tape with butyl adhesive).

Additionally with the incorporation of **tecnolato-mastic** over the primer; complex structures such as flanges, valves and in general fittings can be coated, obtaining a long lasting protection against corrosion.



## Why use tecnolato?

- Low surface preparation requirements. SSPC SP1, SSPC SP2/SP3
- Atmospheric conditions are not a constraint
- Quality control Holiday detector at 12 kV

## Where to use tecnolato?

- Buried or submerged pipes
- Fittings such as valves, elbows, reductions
- Buried overhead transitions.
- Piles
- Atmospheric corrosion control of bolts

## CASE STUDY: PENSTOCK

### Pipe characteristics

- Active: Hydroelectric impulse pipeline
- Diameter: 2 meters
- Coating: Two-coat epoxy
- Buried service
- Failures encountered: Low adhesion and blistering



## CASE STUDY: PENSTOCK



### Stages of coating application

1. Surface preparation. SSPC SP1, SSPC SP2/SP3
2. Tecnoato-primer application. 2-8 mil applied by hand or spatula.
3. Tecnoato-tape application. Taping with 50% overlap
4. Tecnoato-shield application. Wrapping with 50% overlap

## CASE STUDY: PENSTOCK

### Quality control

1. Holiday detector 10 Kv on tecnolato-tape
2. Holiday detector 12 Kv on tecnolato-shield



## CASE STUDY: TEE PLUS CURVE

### Accessory features

- Active: Tee plus curve
- Diameter: 2 ½"
- Coating: Polyguard Tape
- Buried Service
- Failures Encountered: Low adhesion, water between coating and pipe



## CASE STUDY: TEE PLUS CURVE



← Surface preparation



← Tecnolato-primer



← Tecnolato-tape



← Tecnolato-shield



## CASE STUDY: TEE

### Accessory features

- Tee
- Diameter: 2 ½”.
- Coating: Epoxy plus polyethylene tapes
- Buried Service
- Failure Found: Adhesion rating 0, easily peeled more than 6.3 mm per ASTM D677. Peeling, delamination.



## CASO DE ESTUDIO TEE



Surface preparation



Tecnoato-primer



Tecnoato-tape



Tecnoato-shield

## CASE STUDY: SERVICE VALVE

### Accessory features

- Service valve with extenders
- 2 ½" diameter
- Epoxy coating plus polyethylene tapes
- Buried service
- Failure Found: Size No. 2 Medium dense ASTM D714 blistering, undercutting, rust staining, flaking.



## CASE STUDY: SERVICE VALVE



Tecnolato-primer



Tecnolato-mastic



Tecnolato-tape

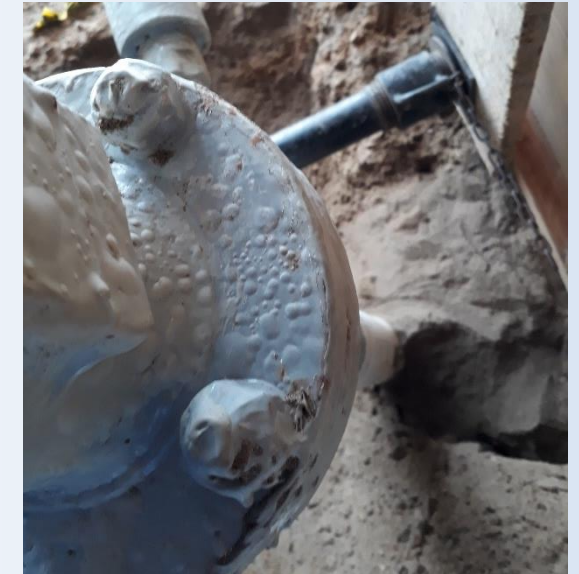


Tecnolato-shield

## CASE STUDY: SERVICE VALVE

### Accessory feature

- Service valve with extenders
- 2 ½" diameter
- Epoxy coating plus polyethylene tapes
- Buried service
- Failure Encountered: Size No. 2 Medium dense, ASTM D714



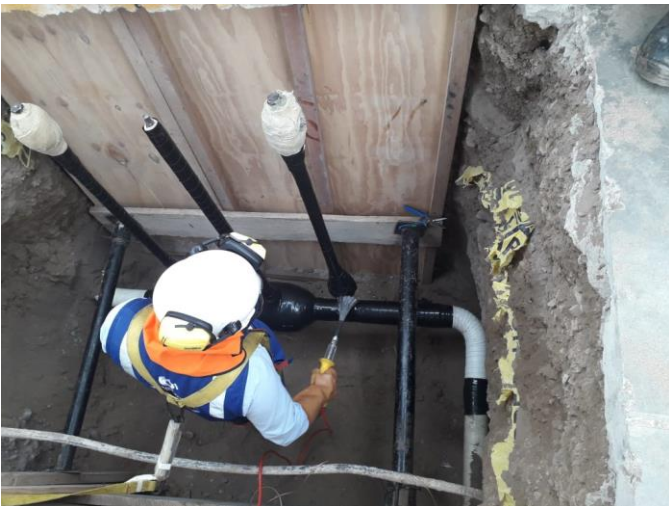
## CASE STUDY: SERVICE VALVE



Tecnolato-tape



Tecnolato-shield



Holiday detector 12 kV

## CASE STUDY: OVERHEAD - BURIED TRANSITION



## CASE STUDY: OVERHEAD - BURIED TRANSITION







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**Thank you for your attention!**

