

# ViscoTape™

# ATVE

## PRODUCT DESCRIPTION

ATVE ViscoTape™ is an effective pipeline corrosion protection coating designed for steel and coatings such as PE, PP and FBE. It is supplied in a roll form for an easy cold-applied application on the pipe. This specialized viscoelastic adhesive is formulated from a non-crystalline, non-reactive stable compound for a permanent bond to the pipe for a long durable service. The polyethylene backing is fiber reinforced to provide excellent mechanical strength. ATVE ViscoTape™ is suitable for above ground and buried pipelines and steel structures.

## PRODUCT PERFORMANCE

### Viscoelastic Properties

The unique viscoelastic nature of the ATVE ViscoTape™ allows cold-flow of the adhesive to fill-in the irregularities of the substrate and also provides self-healing capability to the coating system. The adhesive remains flexible, bonded and conformed to the pipe. The tape design forms an efficient barrier to water and oxygen for excellent corrosion protection.

### Type of Applications

**Pipelines and Field Joints:** Prevent external corrosion of above-ground, buried and immersed pipelines and field joints.

**Fittings:** Elbows, tees, flanges

**Coatings Repair:** Repair and rehabilitation of pipeline coating defects

### Mechanical Properties

ATVE ViscoTape™ is complemented by an ATVE OuterWrap tape that provides additional impact and indentation resistance and also facilitates the self-healing of small defects in the coating.



## A Visco-Elastic System for Pipeline Corrosion Protection



## PRODUCT FEATURES

### Performance

- Low-temperature performance
- Stable long-term service
- Aging and weather resistance
- Long shelf life
- Multiple roll sizes
- Resistant to water, salts, acids, alkalis and polar solvents
- Extra thickness with multiple wraps

### Application Benefits

- Wire brush to ISO 8501-1 St 2 or blast
- Fast ambient-temperature application
- Conforms to irregular shapes
- Environmentally friendly and safe
- No cooling, curing, drying or hardening

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## Product Form

|                    |               |               |
|--------------------|---------------|---------------|
| Color - ViscoTape™ | Yellow        | Yellow        |
| Color - Outer Wrap | Black         | Black         |
| Thickness          | 2.0 mm        | 2.0 mm        |
| Temperature Range  | -45°C to 80°C | -45°C to 80°C |

| ViscoTape™                   | Test Method | Typical Values          |
|------------------------------|-------------|-------------------------|
| Lap Shear Strength           | EN 12068    | 0.02 N/mm <sup>2</sup>  |
| Drip Resistance              | EN 12068    | Pass at 90°C            |
| Glass Transition Temperature | ASTM D3418  | -40°C                   |
| Electrical Resistance*       | EN 12068    | 10 <sup>15</sup> ohm/cm |
| Low Temperature Flexibility  | EN 12068    | < -30°C                 |
| Water Absorption             | ASTM D570   | 0.03%                   |

| ViscoTape™ With OuterWrap             | Test Method | Typical Values          |
|---------------------------------------|-------------|-------------------------|
| Peel Strength                         | EN 12068    | 0.5 N/mm                |
| Cathodic Disbandment Resistance, 23°C | EN 12068    | < 2 mm                  |
| Cathodic Disbandment Resistance, 70°C | EN 12068    | 0 mm, Self heal         |
| Seal Healing Test, 23°C, 24 hrs       | AT 0268     | Pass, holiday filled    |
| Seal Healing Test, 23°C, 24 hrs       | AT 0268     | Pass, holiday filled    |
| Indentation Test, 70°C, 24 hrs        | EN 12068    | Pass residual of 0.6 mm |
| Impact Resistance Test                | EN 12068    | 15 J                    |

## PRODUCT SELECTION GUIDES

| Product Name    | Designation         | Contents  | Packaging | Quantity/Carton |
|-----------------|---------------------|-----------|-----------|-----------------|
| ATVE ViscoTape™ | ATVE-B 50-10 BL     | 50mmx10m  | Carton    | 12              |
| ATVE ViscoTape™ | ATVE-B 100-10 BL    | 100mmx10m | Carton    | 6               |
| ATVE ViscoTape™ | ATVE-B 150-10 BL    | 150mmx10m | Carton    | 4               |
| ATVE ViscoTape™ | ATVE-B 200-20 BL    | 200mmx20m | Carton    | 2               |
| ATVE OuterWrap  | ATVE-OW-B 100-30 BK | 100mmx30m | Carton    | 12              |
| ATVE OuterWrap  | ATVE-OW-B 150-30 BK | 150mmx30m | Carton    | 6               |



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