

# Wrapid Tape™

## Primerless Crosslinked Protective Tape

Canusa-CPS is a leading manufacturer of specialty pipeline coatings which, for over 30 years, have been used for sealing and corrosion protection of pipeline joints and other substrates. Canusa high performance products are manufactured to the highest quality standards and are available in a number of configurations to accommodate your specific project applications.

### Product Description

Canusa Wrapid Tape™ consists of a crosslinked polyolefin backing, coated with a protective, heat sensitive anti-corrosion adhesive which effectively bonds to steel substrates and common pipeline coatings including polyethylene and fusion bonded epoxy. Upon the application of heat, Wrapid Tape™ shrinks down to fully encapsulate the protected substrate. The product is packaged in convenient rolls with various widths to protect and repair pipelines, fittings, bends, elbows and other irregular configurations.

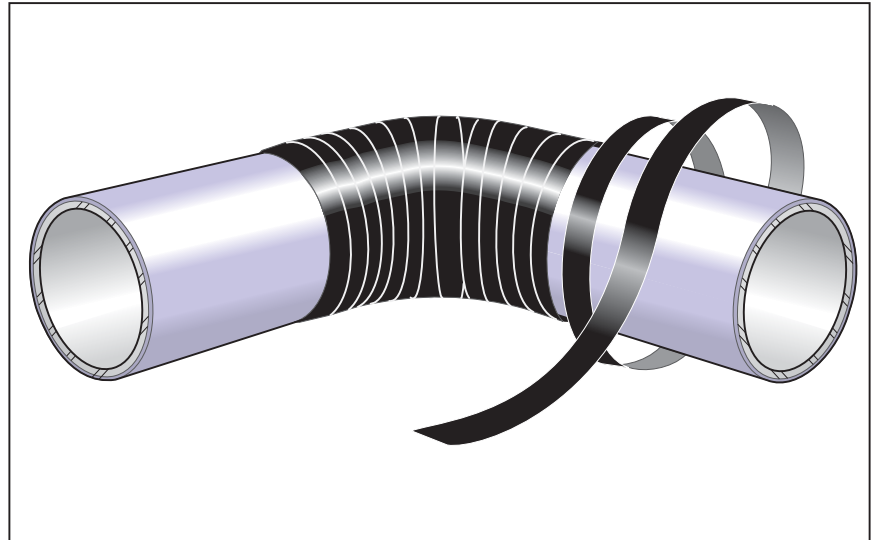
### Features & Benefits

#### Easy Installation

The flexibility provided by the thinner tape dimension allows Wrapid Tape™ to effectively protect both conventional substrates such as circular pipe as well as irregular transitions such as elbows and risers. Upon the application of heat, the specially formulated adhesive flows into all surface irregularities, forming a protective barrier against corrosion.

#### Saves Time & Money

Wrapid Tape™ is quick and easy to install. Since no special priming or operator equipment is required, product installation is quick and labour costs are kept to a minimum. Unlike conventional cold-applied tapes, Wrapid Tape™ does not require the use of high volatile primers, further minimizing costs and risks to health and safety.



### Long Term Protection

Wrapid Tape™ is manufactured using materials that provide high electrical resistivity, low water absorption and low moisture permeability. The unique crosslinking process results in a protective backing that is much tougher than conventional tapes, more effectively resisting abrasion and damage, and thus extending the lifetime of the substrate. Wrapid Tape™ can also be double or triple wrapped for extra mechanical protection when required.

### Applications



Oil & Gas



Water Pipelines



Repair & Rehab



Fittings



Bends



Girth-Weld Joints

### Configurations



Wrapid Tape™



2-Layer

### Pipe Sizes



All Sizes

### Temperature Range



up to 55°C (131°F)

## Operating Characteristics

| Tape Operating Characteristics   | Celsius   |      | Fahrenheit  |                          | Hot Melt |  | Mastic |  |
|----------------------------------|-----------|------|-------------|--------------------------|----------|--|--------|--|
|                                  |           |      | HCA         | HCO                      | HCC      |  |        |  |
| Pipeline Operating Temperature   | 110°      | 230° |             |                          |          |  |        |  |
|                                  | 90°       | 194° |             |                          |          |  |        |  |
|                                  | 70°       | 158° | █           | █                        | █        |  |        |  |
|                                  | 50°       | 120° | █           | █                        | █        |  |        |  |
|                                  | 30°       | 85°  | █           | █                        | █        |  |        |  |
| Minimum Installation Temperature | █ °C (°F) |      | 60 (140)    | 65 (149)                 | 60 (140) |  |        |  |
| Resistance to Soil Stress        |           |      | good        | good                     | fair     |  |        |  |
| Main Line Coating Compatibility  |           |      | PE, FBE, PU | Bit, CT, PU, PE, PP, FBE |          |  |        |  |

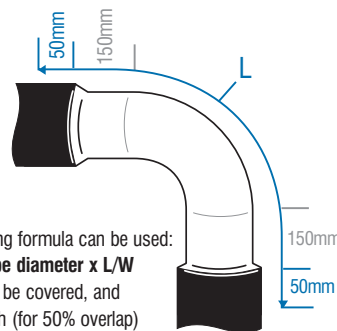
## Tape Usage Guide

| Nominal Pipe Diameter | Recommended Tape Width |        | Length of Tape Required |      |         |       |
|-----------------------|------------------------|--------|-------------------------|------|---------|-------|
|                       | DN                     | inches | 3D Bend                 |      | 5D Bend |       |
|                       | mm                     | inches | M                       | feet | M       | feet  |
| 25                    | 1                      | 50 2   | 2.8                     | 9.3  | 2.8     | 9.3   |
| 40                    | 1.5                    | 50 2   | 4.0                     | 13.2 | 4.6     | 15    |
| 50                    | 2                      | 50 2   | 5.2                     | 17   | 6.2     | 20.3  |
| 80                    | 3                      | 50 2   | 8.5                     | 28   | 10.6    | 34.7  |
| 100                   | 4                      | 50 2   | 12.3                    | 40   | 14.8    | 48.6  |
| 125                   | 5                      | 75 3   | 11.1                    | 36.4 | 13.6    | 44.6  |
| 150                   | 6                      | 75 3   | 14.3                    | 46.9 | 18.3    | 60    |
| 200                   | 8                      | 100 4  | 16.3                    | 53.4 | 20.8    | 68.2  |
| 250                   | 10                     | 100 4  | 23.1                    | 75.8 | 30.6    | 100.4 |
| 300                   | 12                     | 100 4  | 30.4                    | 99.8 | 40.9    | 134.2 |
| >300                  | >12                    | 150 6  | see formula below       |      |         |       |

## Typical Product Properties

| Adhesive                  | Test Standard              | Unit                    | HCA        | HCO       | HCC       |           |
|---------------------------|----------------------------|-------------------------|------------|-----------|-----------|-----------|
|                           | Softening Point            | ASTM E28                | °C (°F)    | 72 (162)  | 102 (216) | 90 (194)  |
| Lap Shear                 | ASTM D1002                 | N/cm <sup>2</sup> (psi) | 60 (87)    | 40 (58)   | 30 (44)   |           |
| Backing                   | Specific Gravity           | ASTM D792               | 0.93       | 0.93      | 0.93      |           |
|                           | Tensile Strength           | ASTM D638               | MPa (psi)  | 20 (2900) | 20 (2900) | 20 (2900) |
|                           | Elongation                 | ASTM D638               | %          | 600       | 600       | 600       |
|                           | Hardness                   | ASTM D2240              | Shore D    | 46        | 46        | 46        |
|                           | Abrasion Resistance        | ASTM D1044              | mg         | 45        | 45        | 45        |
| Tape                      | Impact                     | ASTM G14                | pass/fail  | pass      | pass      | pass      |
|                           | Peel                       | ASTM D1000              | N/cm (pli) | 35 (20)   | 52 (30)   | 26 (15)   |
|                           | Water Absorption           | ASTM D570               | %          | 0.05      | 0.05      | 0.05      |
|                           | Cathodic Disbondment       | ASTM G8                 | mm rad     | 13        | 6         | 8         |
|                           | Dielectric Voltage Brkdwn. | ASTM D149               | kV/mm      | 27        | 27        | 27        |
|                           | Low Temp. Flexibility      | ASTM D2671C             | °C (°F)    | -32 (-25) | 5 (23)    | -14 (-7)  |
|                           | DIN Approval               | DIN 30 672              | class      | C30/C50   | -         | -         |
| Fully Recovered Thickness |                            | mm (mils)               | 1.5 (60)   | 1.5 (60)  | 1.5 (60)  |           |

The above table shows the typical usage for 3D and 5D bends, assuming a line coating cutback of 150 mm (6") and



Material Usage Table

For other sizes, the following formula can be used:  
**Length of tape TT = x pipe diameter x L/W**  
 where L=length of area to be covered, and  
 W= 1/2 of tape width (for 50% overlap)

## How To Order:

| Dimensions & Ordering Info | HCA-B 75-15 BK                     |  |  | Wrapid Tape™  |  |
|----------------------------|------------------------------------|--|--|---|--|
|                            | Colour ▶                           |  |  | BK-Black, YE-Yellow   |  |
|                            | Length of Roll ▶                   |  |  | 15m (50 ft)   |  |
|                            | Width of Roll ▶                    |  |  | 50, 75, 100, 150, 200, 300 mm<br>(2", 3", 4", 6", 8", 12")          |  |
|                            | Bulk Roll Designation ▶            |  |  | B - Bulk Roll Designation   |  |
|                            | Adhesive (thickness as supplied) ▶ |  |  | A - 0.75 mm (30 mils), O - 0.75 mm (30 mils), C - 0.75 mm (30 mils) |  |
|                            | Backing (thickness as supplied) ▶  |  |  | C - 0.4 mm (16 mils)  |  |
|                            | Configuration ▶                    |  |  | H - Tape  |  |

The above represents standard ordering options. Consult your Canusa representative for any unique project requirements.



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