

INR-110 & K-60 Wrapid Sleeves™ for Insulated Pipes

Corrosion protection and sealing sleeves for pre-insulated pipe joints

For more than 45 years, Canusa-CPS has been a leading developer and manufacturer of specialty pipeline coatings for the sealing and corrosion protection of pipeline joints and other substrates. Canusa-CPS high performance products are manufactured to the highest quality standards and are available in a number of configurations to accommodate many specific project applications.

Product Description

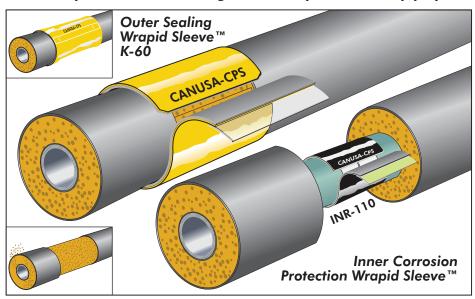
Canusa provides high performance, heat shrinkable products designed for the corrosion protection (INR-110) and sealing protection (K-60) of pre-insulated pipe joints.

INR-110 sleeves are specifically engineered for use in combination with polyurethane (PUR) foam or other infill systems. These sleeves are resistant to the conditions associated with the PUR foaming operation and maintain their full set of anti-corrosion properties. INR-110 sleeves are fully compatible with a wide range of pipeline coatings, including PP, FBE, PE, Coal Tar and Tape. The Canusa Wrapid Sleeve™ Type K-60 is a onepiece wraparound sleeve used to seal and provide mechanical protection of exposed foam insulation. It consists of a cross-linked polyolefin backing, coated with a technologically advanced protective adhesive which effectively bonds to polyethylene outer jackets and foam insulation.

Features & Benefits

Corrosion Protection INR-110 Sleeve

- Operator Friendliness One-piece, wraparound sleeves with a factory bonded closures and a specially engineered product thickness results in optimum installation time. Single wrap configuration eliminates the requirements for muiltiple wrappings.
- II) Crosslinked Polyolefin Backing Proprietary crosslinking technology provides superior resistance to PUR in-fill while ensuring long-term hoop stress.
- III) Unique adhesive technology allows for a low surface preparation requirement while ensuring long-term adhesion and excellent cathodic disbondment resistance properties.



Outer Sealing Sleeves-Type K-60

Long-Term Protection

Wrapid SleeveTM Type K-60 provides excellent resistance to soil stress resulting in an effective long term seal. Once installed, Wrapid SleeveTM Type K-60 provides the structural integrity of a seamless tube, and provides the substrate with durable protection against abrasion and chemical attack.

Saves Time & Money

With Wrapid Sleeve™ Type K-60's unique construction, less time is required handling, positioning and installing separate closures. With the application of heat, this feature allows for fast, simple and complete installation of the sleeve. This minimizes installation time and labour costs while promoting high production rates.

- Wrapid Sleeve[™] Type K-60 Configuration Onepiece configuration (K) incorporates a preattached closure that has been factory applied resulting in quick and reliable field installation.
- II) Crosslinked Polyolefin Backing Proprietary crosslinking technology provides superior abrasion resistance and mechanical strength to the backing.
- III) Assured Performance Operating temperature specific adhesives ensure aggressive bonding and long-term sealing protection even in high soil stress conditions.
- IV) Job-site Flexibility CanusaWrap™ (W) bulk rolls are available upon special request for varying pipe diameters.

Applications









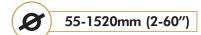
Configurations







Pipe Sizes



Temperature Range



INR-110 & K-60 Wrapid Sleeves TM for Insulated Pipes

intended as a guide for standard products.

Corrosion protection and sealing sleeves for pre-insulated pipe joints

Product Selection Guide Sealing Protection Corrosion Protection Choose your sleeve based on Operating Temperature and **INR-110** K-60* Celsius Fahrenheit Characteristics listed below. 100° 212° 80° 176° **Pipeline** Operating 140° Character Temperature 104° 209 68° Pre-heat 32° Temperature Operating 10°C (18°F) above Dew Point 65°C (149°F) Minimum Installation Temperature¹ Maximum Operating Temperature 110°C (230°F) 60°C (122°F) Resistance to Soil Stress / Axial Movement not applicable good excellent not applicable Compatibility to Polyurethane Foam (In-fill)² Bit, Tape, CTE, PE, PP, FBE Tape, PE, PP Main Line Coating Compatibility Recommended Surface Preparation St 2 St 2

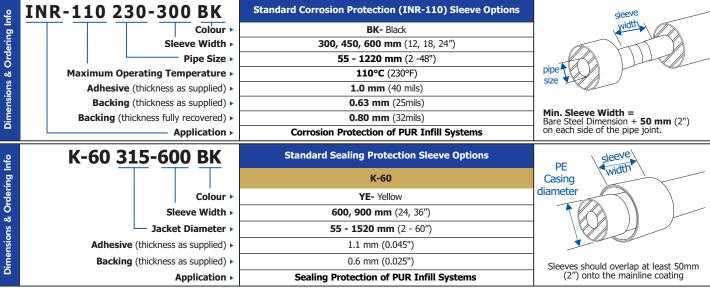
Typical Product Properties

¹ these preheat temperatures only apply to insulated pipelines, refer to Wrapid Sleeve™ Product Data Sheet for girth-weld corrosion protection 2 product resists in-fill material (i.e. PUR foam) up to 240°C (464°F)

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Adhesive	Softening Point Lap Shear Strength	Test Standard ASTM E28 DIN 30 672	Unit °C (°F) N/cm² (psi)	INR-110 120 (248) 6 (9)	K-60* 87 (189) 35
Backing	Specific Gravity Tensile Strength Elongation Hardness Heat Shock - 4 hrs @ 250°C Abrasion Resistance	ASTM D792 ASTM D638 ASTM D638 ASTM D2240 ASTM D2671 ASTM D1044	MPa (psi) % Shore D Visual mg	0.95 22 (3190) 600 52 pass 30	0.93 20 600 46 pass 45
Sleeve	Peel Strength Water Absorption Low Temperature Flexibility Resistance to PUR in-fill Drum Skin Test	DIN 30 672 ASTM D570 ASTM D2671 D024 A P50-F SD004	N/cm (pli) % °C (°F) Pass/Fail Visual	18 (10) 0.05 -30 (-22) Pass no melt or sag	88 0.05 -20 (-4) N/A N/A

How To Order:

*K-60 UV should be used for above ground applications



The above represent standard ordering options. Consult your Canusa representative for any unique project requirements or CanusaWrap™ (require CLW closures) configuration.





Authorized Dealer of Canusa-CPS Products

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Canusa warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the installation guide when used in compliance with Canusa's written instructions. Since many installation factors are beyond our control, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection therewith. Canusa's liability is stated in the standard terms and conditions of sale. Canusa makes no other warranty either expressed or implied. All information contained in this installation guide supersedes all previous installation guides on this product.

E&OE

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