

TBK-60-XL Directional Drilling Kit

Heat-Shrinkable corrosion and mechanical protection system for pipeline field joints during horizontal directional drilling.

For more than 35 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

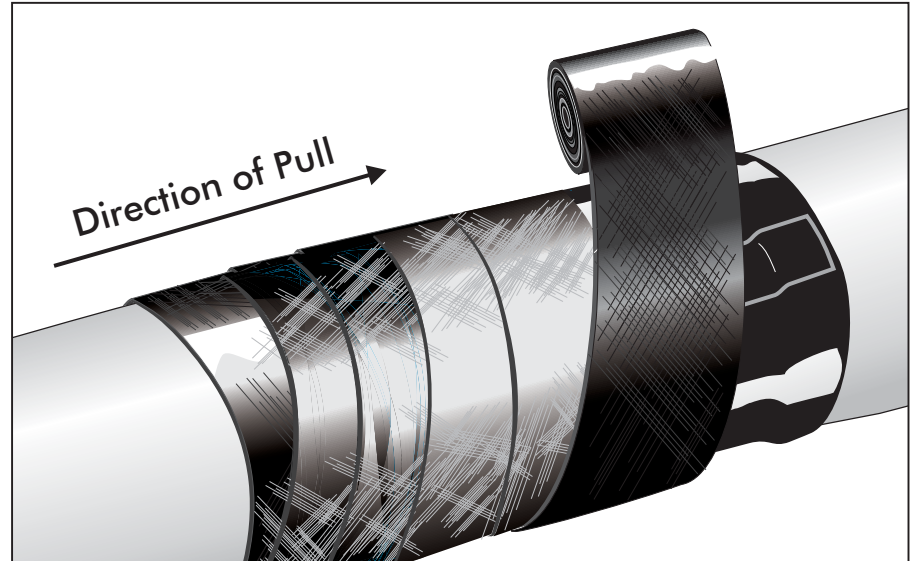
Canusa's TBK-60-XL Directional Drilling Kit is a high performance and easy to apply system designed to provide corrosion and mechanical protection to girth weld joints on polyethylene, polypropylene and FBE coated pipelines used in horizontal directional drill installations or areas where severe backfill conditions are present. The system consists of two components: K-60 heat-shrinkable sleeve which provides corrosion protection at the field joint; and Wrapid Coat™ XL, a moisture curable polyurethane impregnated fiberglass protective outer wrap.

The system provides effective protection against abrasion and wear forces that occur during the pull-through operation. The system is fully compatible with cathodic protection systems, resists cathodic disbondment and is designed for a wide range of operating temperatures.

Features & Benefits

Long Term Protection

Canusa's TBK-60-XL Directional Drilling Kit provides superior corrosion protection because of the inherent properties of the K-60 sleeve coupled with Wrapid Coat™ XL, a high performance hard shell outer wrap. The result is effective, long term protection against corrosion and mechanical damage.



Superior Mechanical Performance

Canusa's TBK-60-XL Directional Drilling Kit utilizes Wrapid Coat™ XL; a moisture curable fiberglass outer wrap as mechanical protection. This outer wrap provides excellent tensile strength and hardness with resistance to impact, indentation and abrasion. The resulting system is tough yet has a low profile which is particularly important in directional drilling applications.

Convenience

The K-60 heat-shrinkable sleeve is installed as on the non-directional drill sections of the project making the installation method consistent thus requiring no special training. The moisture curable fiberglass mechanical protection is activated by opening the heat sealed foil pouch and exposing the resin pre-impregnated roll to water, either by pouring water into the pouch, submerging the roll in water or misting water onto the material as it is being wrapped around the pipe. The system is finished with a compression film to consolidate the wraps and cures quickly into a cast-like material. All materials are provided in a convenient ready-to-use kit which minimizes installation time and labor costs while promoting high production rates.

Applications



Oil & Gas



Water Pipelines



Directional Drilling



Girth-Weld Joints

Configurations



2-Layer



Multi Kit



Wrapid Sleeve™



Wrapid Coat™ XL

Pipe Sizes



55-1520 (2"-60")

Temperature Range



Up to 60°C (176°F)

The product selection chart shown here is intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications.

TBK-60-XL Directional Drilling Kit

Product Selection Guide

Choose the appropriate TBK system based on selection steps 1-2-3.

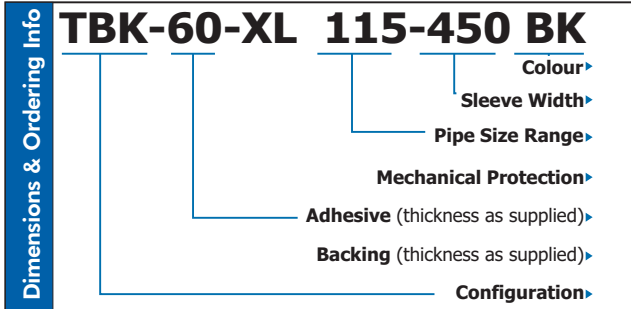
Sleeve Operating Characteristics	Celsius	Fahrenheit	2-Layer Systems	
	130°	266°	TBK-60-XL	
	110°	230°		
	90°	194°		
	70°	158°		
	50°	122°		
	30°	86°		
Pipeline Operating Temp.	°C (°F)		60 (140)	
Minimum Installation Temp.	°C (°F)		75 (167)	
Resistance to Circumferential Forces			good	
Resistance to Soil Stress			good	
Resistance to Axial Pipe Movement			good	
Main Line Coating Compatibility			FBE, PE, PP, PU	

Typical Product Properties

	Test Standard	Unit	TBK-60
Adhesive	Softening point	ASTM E28 °C (°F)	102 (216)
	Lap shear	DIN 30 672 N/cm ²	15
	Lap shear	ASTM D1002 psi	5.5
Backing	Specific gravity	ASTM D792	0.95
	Tensile strength	ASTM D638 MPa (psi)	24 (3480)
	Elongation	ASTM D638 %	700
	Hardness	ASTM D2240 Shore D	52
	Abrasion resistance	ASTM D1044 mg	30
	Volume Resistivity	ASTM D257 ohm-cm	10 ¹⁸
	Dielectric Voltage Brkdw	ASTM D149 kV/mm	20
Sleeve	Impact	DIN 30 672 class C	pass
	Indentation	DIN 30 672 class C	pass
	Peel	ASTM D1000 N/cm (pli)	80 (46)
	Cathodic Disbondment	ASTM G8 mm rad	8
	Water Absorption	ASTM D570 %	0.05
Low Temp. Flexibility	ASTM D2671-C °C (°F)	-14 (7)	

Wrapid Coat™XL		
Property	Test Method	Value
Tensile Strength	ASTM D638	36,000 psi
Flexural Strength	ASTM D790	26,000 psi
Compressive Strength	ASTM D695	24,000 psi
Impact Resistance	ASTM G14	167 J
Lap Shear Strength	ASTM D5379	900 psi
Hardness	Shore D	80

How To Order:



Ordering Options	
TBK-60	
BK-Black	
Primary Sleeve - 300, 450, 600mm (12, 18, 24")	
55-610 mm (2-24")	
Wrapid Coat™XL	
1.1 mm (0.045")	
0.6 mm (0.025")	
TBK-60-XL	

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



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