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 - Directional Drilling Kit is a high performance system designed to protect welded joints on PE, PP and FBE coated pipelines in directional drills. The system consists of three components: a primary heat-shrinkable sleeve which provides corrosion protection at the joint; a secondary heat-shrinkable sleeve which functions as a sacrificial wear cone; and a high-build epoxy top coat at the ends to provide additional protection to the system. 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.

The Canusa Wrapid Sleeve[™] Type TBK-60 is a onepiece wraparound sleeve designed for corrosion protection of buried and exposed steel pipelines operating up to 60°C (140°F). Wrapid Sleeve[™] Type TBK-60 consists of a cross-linked polyolefin backing, coated with a technologically advanced protective adhesive which effectively bonds to steel substrates and common pipeline coatings including polyethylene and fusion bonded epoxy.

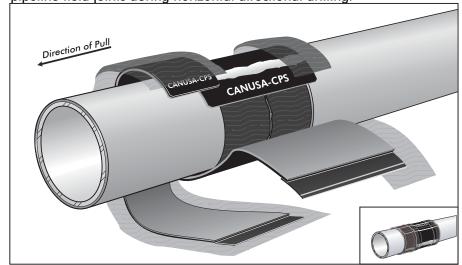
Features & Benefits

Long Term Corrosion Protection

Canusa's TBK - Directional Drilling Kit provides superior corrosion protection because of the protective combination. This primary sleeve provides excellent resistance to cathodic disbondment & excellent durability against abrasion and chemical attack. The result is effective, long term protection against corrosion.

TBK-60 Directional Drilling Kit

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

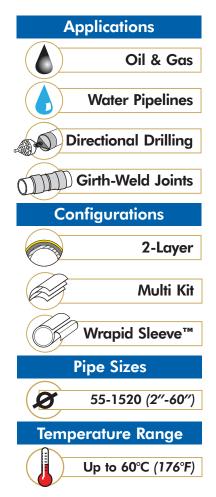


Superior Abrasion Resistance

Canusa's TBK - Directional Drilling Kit utilizes multilayer sleeves coated with a heat activated adhesive. The inherent performance properties associated with the sleeve adhesive reduces damage of the coating during pipeline installation and provides excellent resistance to soil stresses and pipe movements. The narrow, epoxy coated sacrificial sleeve is applied to the leading edge of the primary sleeve. The hardened epoxy topcoat provides the additional abrasion and wear resistance to withstand the forces during directional drilling.

Convenient Epoxy Kit

Epoxy is supplied in kits with all tools required to apply this system. The convenient ready-to-mix epoxy packaging minimizes installation time and labor costs while promoting high production rates.



TBK-60 - Directional Drilling Kit

Product Selection Guide

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

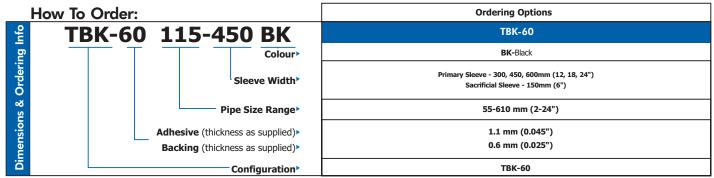
	Celsius	Fahrenheit	2-Layer Systems
	130°	266°	TBK-60
<u> </u>	110°	230°	
iris	90°	194°	
Characteristics	70°	158°	
arc	50°	122°	
ਠ	30°	86°	
Sleeve Operating	Pipeline Operating Temp. Minimum Installation Temp. Resistance to Circumferential Forces Resistance to Soil Stress Resistance to Axial Pipe Movement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

Typical Product Properties

	Typical TToaoci	rroperm		
		Test Standard	Unit	TBK-60
Adhesive	Softening point	ASTM E28	°C (°F)	102 (216)
hes	Lap shear	DIN 30 672	N/cm²	15
Ad	Lap shear	ASTM D1002	psi	5.5
	Specific gravity	ASTM D792		0.95
	Tensile strength	ASTM D638	MPa (psi)	24 (3480)
	Elongation	ASTM D638	%	700
	Hardness	ASTM D2240	Shore D	52
6	Abrasion resistance	ASTM D1044	mg	30
kin	Volume Resistivity	ASTM D257	ohm-cm	1018
Backing	Dielectric Voltage Brkdwi	1 ASTM D149	kV/mm	20
	. .			
	Impact	DIN 30 672	class C	pass
	Indentation	DIN 30 672	class C	pass
	Peel	ASTM D1000	N/cm (pli)	80 (46)
ě	Cathodic Disbondment	ASTM G8	mm rad	8
Sleeve	Water Absorption	ASTM D570	%	0.05
S	Low Temp. Flexibility	ASTM D2671-C	°C (°F)	-14 (7)

Epoxy Kit Usage

Pipe Dian	neter	Kits Required			
(inches)	(mm)				
41/2	115	1			
6.6	170	1			
8.6	230	1			
10¾	280	1			
12¾	315	1			
14	355	1			
16	400	2			
18	450	2			
20	500	2			
24	610	2			
28	710	2			
30	760	2			
36	915	3			
42	1060	3			
48	1220	4			
60	1520	4			
Application Guidelines					
Refer to specific product Installation Guide.					
Canusa Properties					
Pot life @ 23	°C (/3°F)	20 minutes			
Shelf life @ 2	23°C, out of sunlight	3 years			



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



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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 is to be used as a guide and is subject to change without notice. This installation guide supersedes all previous installation guides on this product. E&OE Printed on recycled paper. Recyclable. PDS-NA-TBK-60-rev013