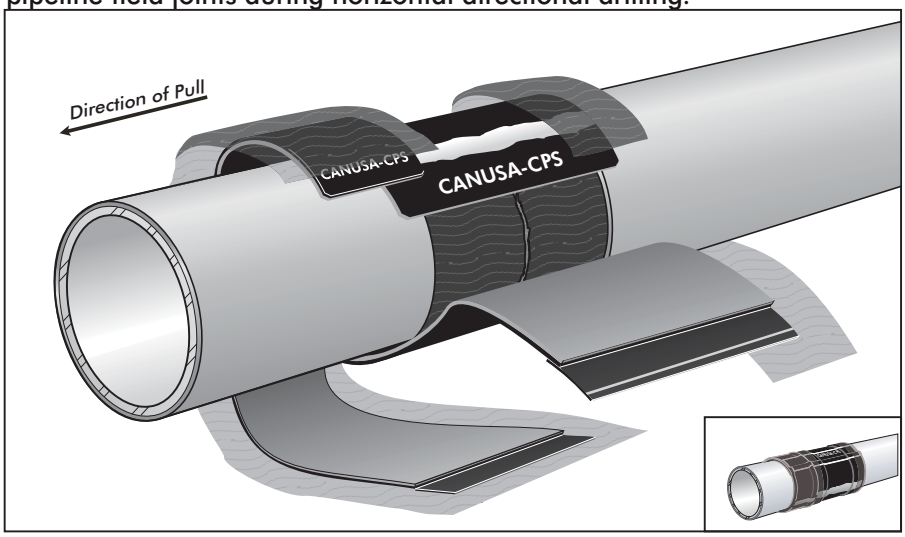
CANUSA-CPS
A SHAWCOR COMPANY

Product Data Sheet

TBK-60 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 - 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 one-piece 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.

Superior Abrasion Resistance

Canusa's TBK - Directional Drilling Kit utilizes multi-layer 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.

Applications

- Oil & Gas
- Water Pipelines
- Directional Drilling
- Girth-Weld Joints

Configurations

- 2-Layer
- Multi Kit
- Wrapid Sleeve™

Pipe Sizes

55-1520 (2″-60″)

Temperature Range

Up to 60°C (176°F)

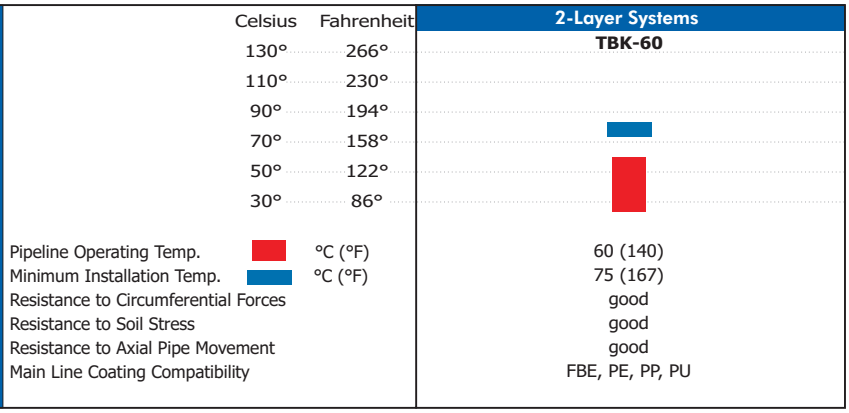
The product selection chart shown here is intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications.

TBK-60 - Directional Drilling Kit

Product Selection Guide

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

Sleeve Operating Characteristics



		2-Layer Systems
		TBK-60
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 Brkdwn	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)

Epoxy Kit Usage

Pipe Diameter (inches)	(mm)	Kits Required
4½	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 (73°F)	20 minutes
Shelf life @ 23°C, out of sunlight	3 years

How To Order:

Dimensions & Ordering Info

TBK-60 115-450 BK

- **Colour**
- **Sleeve Width**
- **Pipe Size Range**
- **Adhesive** (thickness as supplied)
- **Backing** (thickness as supplied)
- **Configuration**

Ordering Options
TBK-60
BK-Black
Primary Sleeve - 300, 450, 600mm (12, 18, 24") **Sacrificial Sleeve - 150mm (6")**
55-610 mm (2-24")
1.1 mm (0.045") **0.6 mm (0.025")**
TBK-60

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

CANUSA-CPS
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