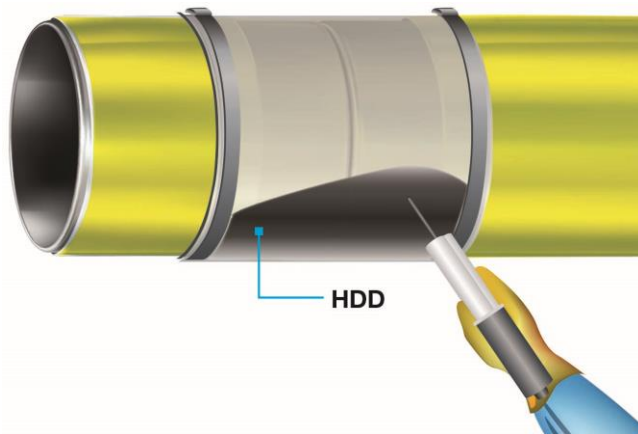


LIQUITOL[®]-HDD

Product information



Special advantages:

- ✓ High abrasion resistance and peel resistances.
- 🌡️ ≤ 80°C Operating temperature from -20°C to +80°C (-4°F to +176°F).
- 📄 B Typ 3 EN 10290 Stress class B, type 3 in accordance with DIN EN 10290.
- 🌿 Solvent-free.
- ✓ Compatible with factory coatings made of PE, PP, PUR, PA, EP, GRP.

Corrosion prevention system for the field-joint coating of welding seams in pipelines installed using the horizontal directional drilling (HDD) or the pipe-plow method.

DEKOTEC GmbH stands for experience, quality and reliability in the field of corrosion prevention and sealing technology. The success is based on the development of the Petrolatum-Tape which was already developed in 1927 as the first product worldwide for passive corrosion prevention of pipelines. We establish and guarantee the highest quality standards with technically trend-setting products. Research, development and production take place exclusively in Germany. Our employees are continuously implementing safe and individual solutions in a personal cooperation with the customer.

Description

LIQUITOL[®]-HDD is a two-component polyurethane coating for a permanent corrosion prevention of field-joints at pipes for trenchless installation processes.

LIQUITOL[®]-HDD features a high hardness and abrasion resistance as well as good stretchability and bending strengths. Therefore, **LIQUITOL[®]-HDD** is especially qualified for the coating of welding seams at pipes and pipelines that are installed using the horizontal directional drilling (HDD) or the (rocket) pipe-plow method.

The balanced property profile and the easy processing from a two-chamber cartridge have been proven outstandingly for decades in many construction projects worldwide.

The coating is provided from a two chamber cartridge in one work step in a special casing system. The casing system provides a high surface quality and also protects the material against weather impacts during hardening.

LIQUITOL[®]-HDD fulfills the requirements of DIN EN 10290 (class B, type 3) for operating temperatures of up to +80°C (+176°F) and therefore it is designed for highly corrosive and highly mechanical stresses.

LIQUITOL[®]-TLC is an additional fast hardening corrosion prevention coating on the basis of polyurethane for the field-joint coating for trenchless pipe installations in piling and pipe ramming processes.

Typical product properties

Property		Unit	Typical value	Required value	Test method
Layer thickness		mm	>1.5	>1.5	EN 10290
Free of pores at 8 kV / mm (max. 20 kV)		-	fulfilled	-	EN 10290
Dielectric strength		kV/mm	>5	-	-
Impact resistance	+23 °C (+73 °F)	J/mm	>5	>5	EN 10290
	-5 °C (+23 °F)	J/mm	>3	>3	EN 10290
Indentation resistance	+23 °C (+73 °F)	mm	<0.1	≤0.2	EN 10290
	+80 °C (+176 °F)	%	≤29	≤30	EN 10290
Flexibility	+23 °C (+73 °F)	-	fulfilled	fulfilled	EN 10290
	0 °C (+32 °F)	-	fulfilled	fulfilled	EN 10290
Elongation at break		%	≥18	≥10	EN 10290
Specific electrical insulation resistance	+23 °C (+73 °F), 100 d	Ω m ²	>1.5 10 ¹⁰	≥10 ⁷	EN 10290
	+80 °C (+176 °F), 30 d	Ω m ²	>1.0 10 ⁵	≥10 ⁴	EN 10290
Pull-off adhesion on steel	+23 °C (+73 °F)	MPa	>13	>7	EN 10290
	+80 °C (+176 °F)	MPa	>2	-	EN 10290
Pull-off adhesion on PE, PP	+23 °C (+73 °F)	MPa	>4	-	ISO 4624
Adhesive strength (knife test) on steel	+23 °C (+73 °F)	mm	≤ 1 (Rating 1)	≤ 3 (Rating 3)	EN 10290
	+80 °C (+176 °F)	mm	≤ 3 (Rating 3)	≤ 5 (Rating 4)	EN 10290
Adhesive strength after water storage (+80°C (+176 °F), 100 h)	+23 °C (+73 °F)	mm	≤ 1 (Rating 1)	-	EN 10290
Lap shear strength	Steel	N/cm ²	>400	-	EN 12068
	PE	N/cm ²	>50	-	EN 12068
Cathodic disbondment	+23 °C (+73 °F), 30 d	mm	<2.5	<8	EN 10290
	+60 °C (+140 °F), 2 d	mm	<2.5	<8	EN 10290
Hardness	+5 °C (+41 °F)	Shore D	75±3	-	ISO 868
	+20 °C (+68 °F)	Shore D	73±3	-	ISO 868
	+40 °C (+104 °F)	Shore D	59±3	-	ISO 868
	+70 °C (+158 °F)	Shore D	36±3	-	ISO 868
Density		g/cm ³	ca. 1.3	-	-

Ordering information and packaging

Component	Description	Packaging size	Number of packages per box
LIQUITOL®-HDD	Coating material in 2-component cartridges	0.52 kg (400 ml)	12 cartridges per box
LIQUITOL®-casing	PP casing film	1.9 mm x 500 mm x 10.5 m	1 roll
		1.9 mm x 700 mm x 10.5 m	
LIQUITOL®-tensioning strap	Tensioning strap for the fixation of the casing	5.0 m	2 pcs
DEKOMIX®-400 P	Pneumatic cartridge or dispenser for 2-component cartridges.	-	1 pcs per box

Storage conditions

When stored in its original, unopened packaging, **LIQUITOL®-HDD** can be stored for at least 12 months after the manufacturing date.

Storage temperature: +15°C (+59°F) to +30°C (+86°F).

Short term (transport): +5°C (+41°F) to +50°C (+122°F).

The product must be stored in a location that is protected from frost.

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