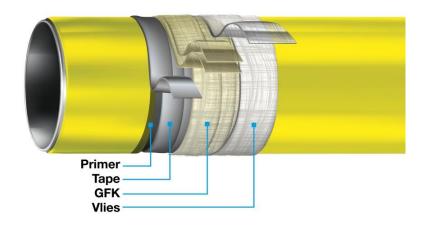
DEPROTEC®-GFK System (HDD process)



Product information



Special advantages:



For temperatures up to +80°C (+176°F)



Abrasion and impact resistant



Can be applied manually



Single component



Cold application

Highly mechanical-stress-resistant corrosion prevention system comprised of a BUTYLEN corrosion prevention coating and a light-curing GRP protection coating

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.

Product description

The **DEPROTEC®-GFK System** is a corrosion prevention system for pipeline constructions that are subject to high levels of mechanical stress during installation or operation. The system is comprised of a BUTYLEN corrosion prevention coating and additional mechanical protection provided by a high-strength fibreglass composite material. It's typical used for field

joint coating of welding seams in trenchless pipeline installations, e.g. using horizontal directional drilling processes (HDD), and if the pipeline cannot be bedded in sand. The applicable standards and guidelines must be followed when bedding and laying pipelines. The **DEPROTEC**®-**GFK System** is comprised of BUTYLEN-HT Primer, BUTYLEN-N60 corrosion prevention

tape and a GFK protective coating made from a single-component, lightcuring vinyl ester resin, a glass fleece and a fibreglass layer.

Product processing:
Please refer to the separate
DEPROTEC®-GFK application
recommendation.

Consumption

The following theoretical consumption figures for the coating of a welded seam assume a standard factory coating cut-back of 150 mm and a required GRP protective coating layer thickness of approx. 2.2 mm. If thicker layers are required, additional fibreglass and resin will be needed. As a guide, the application of two additional layers will add approximately 1 mm to thickness.

Pipe Ø	BUTYLEN-HT Primer	BUTYLEN-N60 corrosion	GRP resin	Fibreglass	Fleece	Stretch
DN		prevention tape		(approx. 580 g/m²)	(approx. 40g/m²)	foil
	[litres]	[sq.m]	[kg]	[sq.m]	[sq.m]	[sq.m]
100	0.020	0.29	0.60	0.86	0.43	0.27
150	0.030	0.42	0.90	1.27	0.63	0.40
200	0.041	0.55	1.20	1.65	0.83	0.52
250	0.051	0.69	1.45	2.06	1.03	0.64
300	0.061	0.81	1.75	2.44	1.22	0.76
400	0.077	1.02	2.15	3.06	1.53	0.96
500	0.096	1.28	2.70	3.83	1.92	1.20
600	0.115	1.53	3.25	4.60	2.30	1.44
700	0.134	1.79	3.80	5.36	2.68	1.68
800	0.153	2.04	4.35	6.13	3.06	1.92
900	0.172	2.30	4.90	6.89	3.45	2.15
1000	0.192	2.55	5.45	7.66	3.83	2.39



Typical product properties

Properties		Unit	Typical value	Required value	Standard	
Maximum operating temperature		°C (°F)	+80 (+176)	-	-	
Impost vasistansa	-5°C/+23°F	1/20.00	≥ 6	≥ 1,5	150 21800 2	
Impact resistance	+23°C/+73°F	J/mm	≥ 9	≥ 5	ISO 21809-3	
Indentation resistance +80°C (+176°F)		%	≤ 1,5	≤ 10	ISO 21809-3	
Cathodic disbondment resistance 28d / +80°C (+176°F)		mm	≤ 9	≤ 15	ISO 21809-3	
Hardness		Shore D	≥ 70	≥ 60	ISO 868	
Specific insulation resistance +23°C (+73°F)		Ω m 2	≥ 6,2*10 ⁺⁹ (Measuring limit laboratory)	≥ 10 ⁺⁶	ISO 21809-3	
Specific insulation resistance +80°C (+176°F)		Ω m 2	≥ 6,2*10 ⁺⁹ (Measuring limit laboratory)	n.a.	ISO 21809-3	
Shear resistance		N/cm ²	≥ 150	≥ 50	DVGW GW340	

The values listed are based on a DEPROTEC®-GFK thickness of ≥ 5,5mm

Ordering information and packaging

BUTYLEN-HT Primer

Packaging	Content [l]	Gross weight [kg]
4 cans per box	1	0,92
Metal bucket	5	4,70
Metal bucket	10	8,70

BUTYLEN-N60

Dell longth (m)	Roll width (mm)	Box content			Weight per box. approx.
Roll length (m)		Number of rolls	Total tape length (m)	Tape area (m²)	(kg)
10	50	12	120	6	8
	100	6	60	6	8

DEPROTEC®-GFK

Product	Roll length (m)	Roll width (mm)	Tape area (m²)	Weight per roll approx. (kg)
Fleece	100	100	10	0,46
Fibreglass	40	100	4	2,65
Stretchfoil	300	500	150	1,95
Stretchfoil	150	100	15	0,36

Product	Packaging	Contents [kg]	Gross weight [kg]
GRP resin	Metal bucket	10	10,94

Storage

When stored in its unopened original packaging, **DEPROTEC®-GFK resin** can be stored for 6 months after the manufacturing date.

Storage temperature: +5°C (+41°F) to +25°C (+86°F).

Storage conditions: Do not expose to heat or direct sunlight! Store in a dry and frost-free location.

BUTYLEN-N60, BUTYLEN-HT Primer, DEPROTEC®-GFK fleece, fibre glass, stretch foil:

When stored in its original unopened packaging, **BUTYLEN-HT Primer** can be stored for 60 months after the manufacturing date.

Storage temperature: <+50°C (<+122°F) and min. +3°C (+5.4°F) above dew point.

Storage conditions: Store in a dry and frost-free location.

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