

Kebutyl-System B 80-C/B 50-B PRODUCT DATA SHEET

- Fully amalgamating overlapping areas
- Forming a sleeve-type coating
- Impermeable to oxygen and moisture
- Resistant to soil stress
- Co-Extrusion technology
- Superior in-ground performance
- For temperatures from – 20 °C to + 80 °C

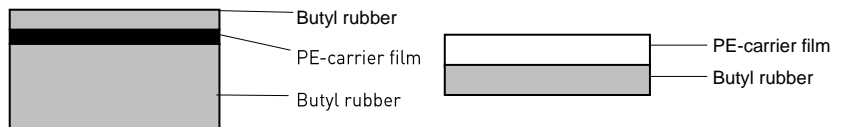


Kebutyl-System B 80-C / B 50-B is a multilayer tape system designed for corrosion protection of pipelines according to DIN EN 12068, DIN 30672 and ISO 21809-3. This Kebutyl-System consists of a liquid adhesive **Kebutyl-Primer KIII**, **Kebulen-Tape B 80-C** 3ply anti-corrosion inner layer and **Kebulen-Tape B 50-B** mechanical outer layer.

The **Kebutyl-System B 80-C / B 50-B** is a cold applied corrosion protective system. It is used for the coating of buried or immersed pipelines of low-alloy ferrous material as well as for the site applied coating in the area of the welded seam. The **Kebutyl-System B 80-C / B 50-B** is used also for pipeline coating rehabilitation. The co-extruded inner layer **Kebulen-Tape B 80-C** produces a strong cohesive bond to the primed steel surface and to the mechanical outer layer. At the spiral overlap it fully amalgamates and forms a sleeve-type coating. The robust properties of the **Kebulen-Tape B 50-B** outer layer provide mechanical protection of the inner 3ply anti-corrosion layer and to the pipe.

STRUCTURE

- Kebutyl-Primer KIII
- 2 layers Kebulen-Tape B 80-C
(1 wrap with 50 % overlap)
- 2 layers Kebulen-Tape B 50-B
(1 wrap with 50 % overlap)



Kebulen-Tape B 80-C (inner layer)

Kebulen-Tape B 50-B (outer layer)

COATING

The **Kebutyl-System B 80-C / B 50-B** is compatible with factory coatings of PE, PP, epoxy resin, PU and bitumen. It can be used for Field Joint Coating, Coating Rehabilitation and Coating Repair.

FORMS OF DELIVERY

Kebutyl-Primer KIII in Containers of 1 l / 5 l / 10 l

	Length of roll [m]	Width of roll [mm]	Rolls per box [-]	Content of box [m ²]
Kebulen-Tape B 80-C	15	30	30	13,5
	15	50	20	15,0
	15	100	10	15,0
	30	100	4	12,0
Kebulen-Tape B 50-B	15	30	36	16,2
	15	50	24	18,0
	15	100	12	18,0
	30	100	3	18,0

Other sizes available on request

Standard classification:

DIN EN 12 068 – C 50

coating ÖNORM EN 12068 – C 50

DIN-DVGW-Reg.-Nr.: NV-5180CL0372

DIN 30 672 – C 50

ISO 21809-3, type 12-1 (up to 50°C)

Preserving values.

ORIGINAL
kebu®

Kebutyl-System B 80-C/B 50-B

PRODUCT DATA SHEET

PROPERTIES TAPES OF KEBUTYL-SYSTEM B 80-C / B 50-B

Property	Unit	B 80-C typical values	B 50-B typical values	Standard
Backing: colour, thickness	-, mm	black, $\geq 0,2$	white, $\geq 0,3$	-
Butyl coating				
inner: colour, thickness	-, mm	grey, $\geq 0,5$	black, $\geq 0,2$	-
outer: colour, thickness	-, mm	black, $\geq 0,1$	-	-
Total thickness	mm	$\geq 0,8$	$\geq 0,5$	-
Elongation at break	%	≥ 750	≥ 750	DIN EN 12068
	%	≥ 800	≥ 780	ASTM D 1000
Tensile strength	N/mm	≥ 10	≥ 10	DIN EN 12068 / ASTM D 1000
Hardness (PE-Foil)	Shore D	≥ 54	≥ 51	DIN 53505 / ISO 868
Water absorption	%	$\leq 0,08$	$\leq 0,08$	DIN EN ISO 62 / ASTM D 570

PROPERTIES KEBUTYL-SYSTEM B 80-C / B 50-B

Property	Unit	Typical values		Standard
Impact resistance	J J/mm	≥ 15 $\geq 5,7$		DIN EN 12068 ISO 21809-3
Indentation resistance		23°C	50°C	
pressure (10 N/mm)		10	10	DIN EN 12068
residual layer thickness	mm	$\geq 0,9$	$\geq 0,6$	ISO 21809-3
Specific electrical insulation resistance R_{SI1000}	$\Omega \text{ m}^2$	8×10^{11}		DIN EN 12068 / ISO 21809-3
Peel strength		23°C	50°C	
- on pipe surface at 10 mm/min	N/mm	$\geq 2,0$	$\geq 0,2$	DIN EN 12068 / ISO 21809-3 DIN EN 12068 / ISO 21809-3 ASTM D 1000 ASTM D 1000
- on factory coating at 10 mm/min	N/mm	$\geq 1,8$	$\geq 0,2$	
- outer to inner tape at 100 mm/min	N/mm	$\geq 2,0$	$\geq 0,2$	DIN EN 12068 ASTM D 1000
- outer to inner tape at 300 mm/min	N/mm	$\geq 2,0$	$\geq 0,5$	
- after 28 d in water (50°C)				
- on pipe surface	N/mm	$\geq 2,1$	$\geq 0,2$	ISO 21809-3 ISO 21809-3
- on factory coating	N/mm	$\geq 2,1$	$\geq 0,2$	
- tape / tape at 100 mm/min				
- Kebulen-Tape B 80-C	N/mm	$\geq 4,0$	$\geq 0,2$	DIN EN 12068 / ASTM D 1000 DIN EN 12068 / ASTM D 1000
- Kebulen-Tape B 50-B	N/mm	$\geq 0,5$	$\geq 0,2$	
Lap shear strength at 10mm/min		50°C		
- to pipe surface	N/mm ²	0,1		DIN EN 12068 DIN EN 12068
- to PE/PP-factory coating	N/mm ²	0,1		

COMPLEMENTARY PRODUCTS

Kebutyl Mastic: None curing, permanently plastics butyl rubber putty, easy to form, for the padding of uneven surfaces.

Kebu Rockshield: Additional mechanical protection (non-woven PP) for coated pipes and valves or for buried plastic.

KEBUMat wrapping tool for the manual application: Simplify the helical wrapping of pipes & bends (homogeneous wrapping tension, overlapping adjustment).

The information given in this publication is based on our knowledge and experience. The hints and instructions for use given therein have been compiled to the best of our knowledge on the basis of our tests and experience. Best results will be obtained if our products are used in a proper and expert way. Any protected rights and existing laws and regulations must be complied with the recipient. In all other respects our general terms and conditions shall apply.

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