Kebulen-Tape B 80-C
PRODUCT DATA SHEET

- Single-tape system
- Fully amalgamating overlapping areas
- Impermeable to oxygen and moisture
- Resistant to soil stress
- Co-Extrusion technology
- Superior in-ground performance

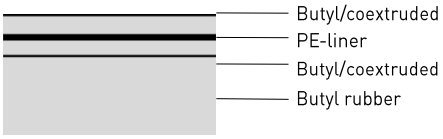
Kebulen-Tape B 80-C is a cold applied 3ply corrosion protection tape designed according to EN 12068, DIN 30672 and ISO 21809-3. It takes on both the corrosion protection function and the mechanical one. Depending on the system structure it meets the standard classifications C 50 or B 50 and is suitable for temperatures up to 80 °C.

Kebulen-Tape B 80-C is constructed asymmetrically in a way that a sufficient amount of butyl rubber (grey) is present on the pipeline side of the tape. This structure almost fully prevents from building of voids. If there are off standing welding beads or edges of factory coating, Kebutyl-Kitt can be used to even the substrate. The coextruded contact layer (black or yellow) on the outer side of the tape provides the self-amalgamating of the overlaps in a way that they form a homogenous tube. Kebulen-Tape B 80-C provides reliable corrosion protection due to its low permeability to water vapour and oxygen.

STRUCTURE

Kebulen-Tape B 80-C

- Kebutyl-Primer KIII
- 3 layers Kebulen-Tape B 80-C (classification B 50)
- 4 layers Kebulen-Tape B 80-C (classification C 50)



Kebulen-Tape B 80-C
(Total thickness of 0.8 mm)

COATING

The Kebulen-Tape B 80-C 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 [m²]
Kebulen-Tape B 80-C	15	30	18	8,10
		50	6	4,50
		100	3	4,50
		50	12	9,00
		100	6	9,00

Other dimensions on request.

Kebulen-Tape B 80-C

Standard classification:
DIN EN 12 068; ISO 21809-3, type 12-1 (up to 50°C) and DIN 30 672 – C 50 (4 layers) / B 50 (3 layers)

DIN-DVGW-Reg.-Nr.: NV-5180AU0468

Preserving **values.**

ORIGINAL kebu®

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PROPERTIES

Property	Unit	Typical value	Standard
Backing: colour, thickness	-, mm	black, ≈ 0,31	-
Butyl coating inner: colour, thickness outer: colour, thickness	 -, mm -, mm	 grey, ≈ 0,45 black, yellow, blue, ≈ 0,04	 - -
Total thickness	mm	≈ 0,8	DIN EN 12068 / ASTM D 1000
Elongation at break	% %	⩾ 750 ⩾ 700	DIN EN 12068 ASTM D 1000
Tensile strength	N/mm MPA	⩾ 10,0 ⩾ 32,0	DIN EN 12068 ASTM D 1000
Hardness (PE-Foil)	Shore D	⩾ 40	DIN 53505 / ISO 868
Impact resistance	J J/mm	⩾ 15 ⩾ 4,7	DIN EN 12068 ISO 21809-3
Water absorption	%	⩽ 0,05	DIN EN ISO 62 / ASTM D 570
Indentation resistance pressure (10 N/mm) residual layer thickness	 mm	23 °C 50 °C 10 19 ⩾ 1,0 ⩾ 0,8	 DIN EN 12068 ISO 21809-3
Specific electrical insulation resistance R_{S1000}	Ω m²	$\geqslant 10^{12}$	DIN EN 12068
Peel strength		23 °C 50 °C	
- on pipe surface at 10 mm/min	N/mm	⩾ 2,5 ⩾ 0,3	DIN EN 12068 / ISO 21809-3
- on factory coating at 10 mm/min	N/mm	⩾ 2,5 ⩾ 0,3	DIN EN 12068 / ISO 21809-3
- on pipe surface at 300 mm/min	N/mm	⩾ 4,0 ⩾ 0,5	ASTM D 1000
- on factory coating at 300 mm/min	N/mm	⩾ 2,0 ⩾ 0,5	ASTM D 1000
- after 28 d in water (50°C)			
- on pipe surface	N/mm	⩾ 2,1 ⩾ 2,1	ISO 21809-3
- on factory coating	N/mm	⩾ 2,1 ⩾ 2,1	ISO 21809-3
tape / tape at 100 mm/min	N/mm	⩾ 4,0 ⩾ 0,3	DIN EN 12068
tape / tape at 100 mm/min	N/mm	⩾ 4,0 ⩾ 0,3	ISO 21809-3
tape / tape at 300 mm/min	N/mm	⩾ 5,0 ⩾ 0,5	ASTM D 1000
Lap shear strength at 10mm/min		23 °C 50 °C	
- to pipe surface	N/mm²	⩾ 0,10 ⩾ 0,08	DIN EN 12068 / ISO 21809-3
- to PE/PP-factory coating	N/mm²	⩾ 0,10 ⩾ 0,08	DIN EN 12068 / ISO 21809-3
Lap shear strength at 10mm/min - to PE/PP-factory coating	 N/mm²	 ⩾ 0,05 ⩾ 0,05	 ASTM D 1002

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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