

# Kebulen Tape I-50 PRODUCT DATA SHEET

- Cost-effective tape
- Outstanding tape elasticity
- Fully amalgamating overlapping areas
- Impermeable to oxygen and moisture
- Resistant to soil stress
- 3ply co-extruded inner tape



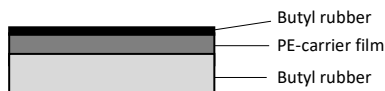
**Kebulen Tape I-50** is a co-extruded 3ply tape designed for corrosion protection of pipelines. In consumption with a mechanical outer layer it can meet the stress class B50 in according to EN 12068, DIN 30672 and ISO 21809-3, type 12-1. The **Kebulen Tape I-50 K** needs to be applied with the liquid adhesive **Kebutyl-Primer KIII** and with an adequate mechanical outer layer e.g. **Kebulen-Tape O-50**.

The **Kebulen Tape I-50** has been developed as a cost-effective inner wrap tape for steel pipes and pipe constructions. It is a cold applied corrosion protective tape used with an outer wrap for the coating of buried or immersed steel pipelines. The **Kebulen Tape I-50** is used for the site applied coating in the area of the welded seam also for pipeline coating rehabilitation as an inner wrap tape. The co-extruded inner layer **Kebulen-Tape I-50** (co-extruded 3-ply) 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.

## STRUCTURE

### Kebulen Tape I-50

- **Kebutyl-Primer KIII**
- 2 layers **Kebulen-Tape I-50**  
(1 wrap with 50 % overlap)
- 2 layers outer layer e.g. **Kebulen-Tape O-50**  
(1 wrap with 50 % overlap)



**Kebulen-Tape I-50**  
(inner layer)

The **Kebulen Tape I-50** 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 <sup>2</sup> ]
Kebulen-Tape I-50	30	30	18	10,8
	30	50	12	12
	30	100	6	12
	70	100	3	21

# Kebutyl-System I-50 / O-50

## PROPERTIES TAPES OF KEBULEN TAPE I-50

Property	Unit	Kebulen Tape I-50 typical values	Standard
Backing: colour, thickness	-, mm	black, ≈ 0,28	-
Butyl coating inner: colour, thickness	-, mm	grey, ≈ 0,22	-
Total thickness	mm	≈ 0,5	-
Elongation at break	%	≥ 760	DIN EN 12068
Tensile strength	N/mm	≥ 7	DIN EN 12068
Hardness (PE-Foil)	Shore D	≥ 40	DIN 53505 / ISO 868

## PROPERTIES KEBUTYL-SYSTEM I-50 in consumption with Kebulen Tape O-50

Property	Unit	Typical values	Standard
Impact resistance	J J/mm	10 5,2	DIN EN 12068 ISO 21809-3
Indentation resistance pressure residual layer thickness	N/mm <sup>2</sup> mm	23 °C 50 °C 1 10 1,2 0,8	DIN EN 12068 ISO 21809-3
Peel strength		23 °C 50 °C	
- on pipe surface at 10 mm/min	N/mm	≥ 1,4 ≥ 0,2	DIN EN 12068 / ISO 21809-3
- on factory coating at 10 mm/min	N/mm	≥ 1,4 ≥ 0,2	DIN EN 12068 / ISO 21809-3
- outer to inner tape at 100 mm/min	N/mm	≥ 2,6 ≥ 0,3	DIN EN 12068 / ISO 21809-3
- tape / tape at 100 mm/min			
- Kebulen-Tape I-50	N/mm	≥ 2,8 ≥ 0,3	DIN EN 12068 / ISO 21809-3
- Kebulen-Tape O-50	N/mm	≥ 0,8 ≥ 0,2	DIN EN 12068 / ISO 21809-3
Cathodic disbondment resistance	mm	23 °C 50 °C 3 14	DIN EN 12068 ISO 21809-3
Lap shear strength at 10mm/min		23 °C 50 °C	
- to pipe surface	N/mm <sup>2</sup>	≥ 0,17 ≥ 0,08	DIN EN 12068 / ISO 21809-3
- to PE/PP-factory coating	N/mm <sup>2</sup>	≥ 0,17 ≥ 0,08	DIN EN 12068 / ISO 21809-3

## 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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