

Kebulen Heat shrinkable sleeve C80

PRODUCT DATA SHEET

- max. operating temperatures up to 80 °C
- High tearing resistance
- Butyl rubber adhesive
- Resistant to soil stress
- Doesn't require primer
- Superior in-ground performance



Kebulen Heat shrinkable sleeve C80 is a hot applied shrink sleeve and meets the requirements of class 14A-2 up to 80 °C according to ISO 21809-3. It provides reliable corrosion protection due to its outstanding mechanical strength and its low permeability to moisture and oxygen.

The carrier of **Kebulen Heat shrinkable sleeve C80** stands out due to high tearing resistance and robustness against overheating during application with open flame. Due to high viscosity at high temperature coatings with butyl rubber are superior to conventional hot melt adhesives. Butyl rubber doesn't melt but softens so that it flows into voids and coves under the shrinking strain pressure. Thus, the material prevents voids instead of building them. This prevents the coating from wandering underneath the carrier and resulting differences of the thickness of the coating or even from oozing out of the coating.

STRUCTURE

Kebulen Heat shrinkable sleeve C80 consists of a carrier made of stabilized, cross-linked polyethylene which is coated on the inside with permanently plastic material based on butyl rubber. After professional preparation of the pipe surface the shrinkable sleeve can be applied without primer or with **Kebutyl Primer K III HT**.

COATING

Kebulen Heat shrinkable sleeve C80 is compatible with factory coatings of PE, PP, epoxy resin, PU, FBE and bitumen and ductile steel pipes. It can be used for **Field Joint Coating**, **Coating Rehabilitation** and **Coating Repair**.

FORMS OF DELIVERY

	Length of roll [m]	Width of roll [mm]
HSS C80	30	450
		600

Other dimensions on request

	Pipe diameter [DN]	Sleeve [mm]
HSS C80 assembled	100	475
	125	550
	150	655
	200	800
	250	975
	300	1140
	400	1440
	500	1810
	800	2730

Other dimensions on request

Preserving values.

ORIGINAL
kebu®

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PROPERTIES

Property	Unit	Typical value		Standard
Total thickness	mm	≈ 2,5		-
Minimum installation temperature	°C	110 °C		-
Softening point	°C	≥ 90		ASTM E 28
Elongation at break	% %	850 790		DIN EN 12068 ASTM D 1000
Elongation at break after thermal aging at 100 °C	%	≥ 300		ASTM D 638
Tensile strength	N/mm MPa MPa	≥ 40 25 15		DIN EN 12068 DIN EN 12068 ASTM D 1000
Hardness	Shore D	≥ 45		DIN 53505 / ISO 868
Volume Resistivity	Ω - cm	≥ 10 ¹⁵		ASTM D 257
Impact resistance	J	≥ 15		DIN EN 12068
Water absorption	%	≤ 0,08		DIN EN ISO 62 ASTM D 570
Indentation resistance Pressure residual layer thickness	N/mm ² mm	23 °C 10 1.0	80 °C 10 0.7	DIN EN 12068
Cathodic disbondment resistance Radius	mm	23 °C 10	80 °C 20	DIN EN 12068 ISO 21809-3
Dielectric strength	kV/mm	20		ASTM D 149
Peel strength - on pipe surface at 10 mm/min - on factory coating at 10 mm/min	N/mm N/mm	23 °C 3.5 3.5	80 °C 0.2 0.2	ISO 21809-3 ISO 21809-3
Lap shear strength at 10mm/min - to pipe surface - to PE/PP-factory coating	N/mm ² N/mm ²	23 °C 0.15 0.15	80 °C 0.05 0.05	DIN EN 12068 / ISO 21809-3 DIN EN 12068 / ISO 21809-3
Shear strength at 50 °C	N/cm ²	6		DIN 30672

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