



## KOWRAP-E80H

### Advanced Heat Shrinkable Sleeve for Corrosion Prevention

KOWRAP-E80H is a 3-layer wraparound heat-shrinkable sleeve. It is designed for corrosion prevention on buried and exposed pipelines operating up to 85°C. E80H is compatible with a broad range of pipe coatings (PE, PP, FBE and etc.) that allow application versatility. Innochem's top-notch adhesive technology allows superior bonding performance, and cross-linked backing offers the optimum solid wall against the environmental attack and moisture intrusion complying with DIN EN 12068 and ISO 21809-3 International Standards.



#### Superior Performance & Durability

- Allows 3-layer coated pipelines fundamentally uniformed coating system
- Provides outstanding battle against cathodic disbondment and moisture absorption resistance
- Withstands tough environments and destructive conditions
- Fully resistant to shear forces against erosion and thermal movements
- Superior adhesion between epoxy primer and adhesive of the sleeve

#### Field- Friendly Installation

- No heavy equipment is needed
- Supplied as one seamless piece for easy and faster application

#### Minimized Cost & Time Saving

- Supplied as bulk rolls or custom-cut to the required pipe size
- Eliminate unnecessary inventory
- Just-in-time pre-cut sleeve option available
- Low preheat condition required

#### Exceptional Aging Condition & Maintenance

- Easy handling without temperature sensitivity
- Insensitive to storage conditions and shelf life

#### Application Area



Oil & Gas



Onshore



Offshore

#### Operating Temperature



Up to 85°C

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### PRODUCT DATA SHEET

#### Sleeve Operating Characteristics

Pipeline Operating Temp.	Up to 85°C (185°F) <sup>‡</sup>
Minimum Installation Temp.	100°C (212°F)
Mainline Coating Compatibility	PE, PP, FBE and etc.

Adhesive Properties	Test Method	Typical Values
Softening Point	ASTM E28	102°C
Lap Shear @ 23°C	EN 12068	1.40 N/mm <sup>2</sup>
Lap Shear @ 80°C	EN 12068	0.12 N/mm <sup>2</sup>

Backing Properties	Test Method	Typical Values
Tensile Strength	ASTM D638	>21 MPa
Elongation	ASTM D638	>500%
Hardness, Shore D	ASTM D2240	>52 Shore D
Moisture Absorption	ASTM D570	0.05%

Sleeve Properties*	Test Method	Typical Values
Peel Strength to Pipe Surface @ 23°C	EN 12068	>5.0 N/mm
Impact Resistance	EN 12068	>15 J
Indentation Resistance @ 23°C	EN 12068	>1.16mm
Cathodic Disbondment @ 23°C, 28 days	EN 12068	4 mm rad <sup>†</sup>
Low Temp. Flexibility @ -15°C	EN 12068	>-20°C

Thickness	L	S	P
Backing (nominal thickness as supplied)	1.0 mm	1.0 mm	1.2 mm
Adhesive (nominal thickness as supplied)	1.0 mm	1.5 mm	1.6 mm

‡ Actual temperature rating depends on project requirements and conditions.

† As a 3-layer system

\* Construction P

Epoxy usage can be referenced on the liquid epoxy data sheet.

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Innochem warrants that the product conforms to its chemical and physical description and its appropriate for the use stated on the technical data sheet when used in compliance with Innochem written instructions. Since many installation factors are beyond the control of Innochem, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection herewith. Innochem liability is stated in the standard terms and conditions of sale. Innochem makes no other warranty either expressed or implied. All information contained in this technical data sheet is to be used as a guide and is subject to change without notice. This technical data sheet supersedes all previous data sheets on this product.