

## KOWRAP A30M

### Advanced 2 Layer Heat Shrinkable Sleeve for Corrosion Prevention

Kowrap A30M is a wrap-around heat shrinkable sleeve for complete corrosion prevention system of the field joint onshore/offshore steel pipelines in various distribution and transmission networks for operating temperature up to 40°C.

The system is designed to be applied with minimum preheating of the pipe, and it is composed of cross-linked polymer backing and heat sensitive visco-elastic sealant adhesive.

The installation is applied on cleaned, pre-heated and dried pipe surface without any liquid adhesive being required. During application, Kowrap is wrapped tightly by allowing torch treatment to form shrinkage around a field joint. During recovery stage, softened mastic adhesive flows to form a perfect bond with the pipe surface providing absolute protection against corrosion. The system's cross-linked polymer outer layer backing becomes high impact resistant against possible external stress and damage, and it also prevents moisture transmission resulting at the beginning of corrosion growth. The system is compatible with general pipe coating materials (PE, PP, FBE, PU, Coal Tar, Tape, Asphalt and etc.) which makes wide range of use.



#### Proven Superior Performance

- Superior anti-corrosion and sealing performance
- Outstanding cathodic disbondment resistance
- Excellent hot water immersion resistance
- Great self-healing effect due to nature of adhesive material and high shrinkage effect
- Fully resistant to shear forces against erosion and thermal movements

#### Field- Friendly Installation

- No liquid adhesive is needed
- Preheating needed just to get moisture off the surface
- Quick application time
- No heavy equipment is needed

#### 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

#### Exceptional Aging Condition & Maintenance

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

#### Customized composition of backing and adhesive

- Engineered for different environments and stress/impact conditions

#### Application Area



Oil & Gas



Water

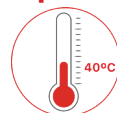


Onshore



Offshore

#### Operating Temperature



Up to 40°C

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### PRODUCT DATA SHEET

#### Sleeve Operating Characteristics

Pipeline Operating Temp.	Up to 40°C (104°F) <sup>※</sup>
Minimum Installation Temp.	50°C (122°F)
Mainline Coating Compatibility	PE, PP, FBE, Coar Tar, Tape, Asphalt and etc.

Adhesive Properties	Test Method	Typical Values
Softening Point	ASTM E28	97°C
Lap Shear @ 23°C	EN 12068	0.08 N/mm <sup>2</sup>

Backing Properties	Test Method	Typical Values
Tensile Strength	ASTM D638	>19 MPa
Elongation	ASTM D638	>300%
Hardness, Shore D	ASTM D2240	>42
Water Absorption	ASTM D570	0.08%

Sleeve Properties	Test Method	Typical Values
Peel Strength to Pipe Surface @ 23°C	EN 12068	>1.4 N/mm
Impact Resistance	EN 12068	>8 J
Indentation Resistance	EN 12068	>1.20 mm
Cathodic Disbondment @ 23°C, 28 days	EN 12068	4 mm rad
Low Temp. Flexibility	EN 12068	>-20°C

Thickness	L	S	P
Backing (nominal thickness as supplied)	0.8 mm	1.0 mm	1.0 mm
Adhesive (nominal thickness as supplied)	0.8 mm	1.0 mm	1.5 mm

※ Actual temperature rating depends on project requirements and conditions.

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ISO 9001:2015  
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