

ProCoat™

M60

PRODUCT DESCRIPTION

ProCoat™ M60 is a heat-shrinkable wraparound sleeve designed for corrosion protection of buried and exposed steel pipelines operating at temperatures up to 60°C. The system combines a crosslinked polyolefin backing with a corrosion-protective adhesive engineered to bond effectively to steel substrates and common mainline coatings, including polyethylene and fusion-bonded epoxy. ProCoat™ M60 is intended for reliable field-joint protection in pipeline construction, maintenance and rehabilitation applications.

PRODUCT FEATURES

Reliable Corrosion Protection

- Strong adhesion to steel and common mainline coatings.
- Durable barrier against moisture, abrasion and chemical attack.
- Designed for pipeline service up to 60°C.

Fast, Flexible Installation

- Lower pre-heat supports efficient field application.
- Available as pre-cut sleeves or bulk roll configurations.
- Suitable for buried and exposed pipeline applications.

Long-Term Performance

- Crosslinked polyolefin backing provides mechanical durability.
- Adhesive system supports resistance to soil stress and cathodic disbondment.



High-Performance Pipeline Joint Protection Sleeve



STANDARD COMPLIANCE

STANDARD	COMPLIANCE
STANDARD NAME	
ISO 21809-3:2016	Compliant*
Field joint coatings - heat-shrinkable materials	
CSA Z245.30:22, Table 3 (FC5)	Compliant*
Field-applied external coatings for steel pipeline systems	
EN 12068:1998	Compliant*
External organic coatings - tapes and shrinkable materials	
EN 10329:2006	Compliant*
External field joint coatings for steel tubes and fittings	
DIN 30672:2000	Compliant*
Tapes and shrinkable materials for buried/underwater pipelines	
DNV-RP-F102:2021	Compliant*
Pipeline field joint coating and field repair of linepipe coating	
GB/T 23257-2017	Compliant*
Polyethylene coating for buried steel pipeline	
GB/T 51241-2017	Compliant*
Technical code for field joint coatings of pipeline	

* Compliance is limited to the relevant provisions applicable to heat-shrinkable sleeve field joint coating systems and is subject to the approved system configuration, application procedure and project-specific qualification requirements.

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Adhesive

	Unit	Typical Value	Test Method
Softening Point	°C	87	ASTM E28
Lap Shear @ 23°C (steel/steel)	N/mm²	> 0.35	ASTM D1002

Backing

		Typical Value	Test Method
Tensile Strength	MPa	20	ASTM D638
Elongation at Break	%	600	ASTM D638
Hardness	Shore D	46	ASTM D2240
Volume Resistivity	Ω·cm	> 10¹⁷	ASTM D257

System Performance

		Typical Value	Test Method
Peel Adhesion to Pipe Surface @ 23°C	N/mm	1.5	ISO 21809-3
Impact Resistance	J	10	ISO 21809-3
Indentation Resistance @ 60°C	mm	> 0.6	ISO 21809-3
Cathodic Disbondment @ 23°C, 28 days	mm	< 8	ISO 21809-3
Low-Temperature Flexibility	N/A	< -20°C	ASTM D2671-C

Product Thickness

	Typical Supplied
Sleeve Backing Nominal Thickness	> 1.0 mm
Adhesive Nominal Thickness	> 1.5 mm

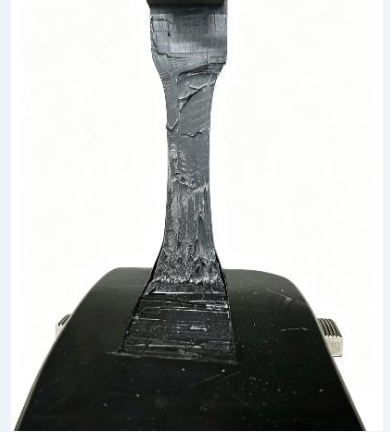


Figure 1. Peel Adhesion

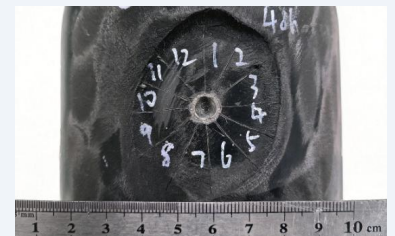


Figure 2. Cathodic Disbondment

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