PRODUCT DATA SHEET

ProCoat™ H100

High-Temperature Pipeline Joint Protection Sleeve

PRODUCT DESCRIPTION

ProCoat™ H100 system is designed to provide advanced corrosion protection and reliable bonding performance for pipelines operating at temperatures up to 100°C. Engineered with a high-temperature adhesive formulation for use with compatible epoxy primers, the H100 sleeve is intended to achieve strong adhesion to both steel and parent coatings. When applied as a qualified system over a compatible epoxy layer, ProCoat™ H100 provides a continuous field-joint corrosion barrier suitable for demanding onshore and offshore pipeline environments.

PRODUCT FEATURES

Advanced High-Temperature Adhesive Technology

- High-shear performance at elevated temperatures.
- Optimized for high-temp epoxy primers.
- Strong bonding to steel and parent coatings.

Efficient, Flexible Installation

- Lower pre-heat for faster application.
- Wet-epoxy installation capability.
- Available in bulk rolls or pre-cut sleeves.

Durable Long-Term Protection

- Seamless barrier for up to 100°C service.
- High resistance to chemicals and abrasion.
- Maintains coating integrity in harsh environments.

STANDARD COMPLIANCE

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

* 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.

ProCoat™ H100

High-Temperature Pipeline Joint Protection Sleeve

Adhesive	Unit	Typical Value / Test Result	Test Method
Lap Shear @ 23°C (steel/steel)	MPa	6	ASTM D1002 (modified)
Lap Shear @ 23°C (PE/PE)	MPa	8	ASTM D1002 (modified)
Lap Shear @ 100°C (steel/steel)	MPa	0.3	ASTM D1002 (modified)
Lap Shear @ 100°C (PE/PE)	MPa	0.5	ASTM D1002 (modified)

Backing	Unit	Typical Value / Test Result	Test Method
Tensile Strength	MPa	21	ASTM D638
Elongation at Break	%	600	ASTM D638
Hardness	Shore D	63	ASTM D2240

System Performance	Unit	Typical Value / Test Result	Test Method
Peel Adhesion to Steel @ 23°C	N/mm	28	CSA Z245.21, Clause 12.4
Peel Adhesion to Existing PE @ 23°C	N/mm	27	CSA Z245.21, Clause 12.4
Peel Adhesion to Steel @ 100°C	N/mm	0.6	CSA Z245.21, Clause 12.4
Peel Adhesion to Existing PE @ 100°C	N/mm	1	CSA Z245.21, Clause 12.4
Cathodic Disbondment @ 23°C, 28 days	mm	1	CSA Z245.21, Clause 12.3
Cathodic Disbondment @ 80°C, 28 days	mm	6	CSA Z245.21, Clause 12.3
Low-Temperature Flexibility @ -18°C, 2°	N/A	No cracking	CSA Z245.20, Clause 12.11
Impact Resistance @ -30°C, 3 J	N/A	No holiday	CSA Z245.20, Clause 12.12

Product Thickness	Unit	Typical Supplied	Test Method
Sleeve Backing Nominal Thickness	mm	> 1.0	
Adhesive Nominal Thickness	mm	> 1.5	

Figure 1. Peel Adhesion

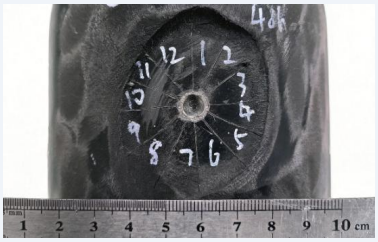

Figure 2. Cathodic Disbondment

290 North Queen St.
Suite 208
Etobicoke, ON M9C 5L2
Canada

Phone: +1 416 433 3186

advance-technology.com

consult@advance-tech.ca

Please contact Advance Technology for further details.

ADVANCE TECHNOLOGY