

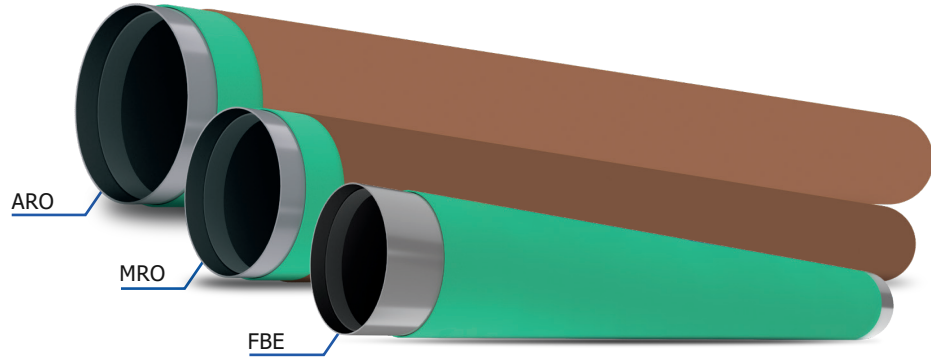
PRODUCT DATASHEET



PRO SERIES

PERMA-BOND™

ANTI-CORROSION PIPE COATING



Formerly Ultrabond FBE,
MRO Moisture Topcoat + Ultrabond FBE
ARO Abrasion Topcoat + Ultrabond FBE

Temperature Range

- 1A (FBE):
-73 °C (-99 °F) up to 110 °C (230 °F)
- 2A (MRO):
-73 °C (-99 °F) up to 150 °C (230 °F)
depending on base coat used.
- 2B (ARO):
-73 °C (-99 °F) up to 110 °C (230 °F)

Pipe Sizes

NPS 3 - 60 (88.9 - 1524 mm)
up to 80 ft (24 m) lengths

Minimum Layer Thicknesses (Full System)

- 1A (FBE): 305 µm (12 mils)
- 2A (MRO): 762 µm (30 mils)
- 2B (ARO): 762 µm (30 mils, 40 mils)

Options

- Bespoke thicknesses available
- UV Protective Topcoat (FBP)
- Anti-Slip Topcoat
(applied over System 1A, 2A, or 2B)

Sales Contacts

Rely on PERMA-PIPE to help provide the right anti-corrosion or insulating coating solutions for your project.

Please contact our Canadian sales office directly at (403) 264-4880 or askpermapipe@permapipe.com

PERMA-BOND™ Pro Series features our single layer fusion bonded epoxy (FBE) and dual layer abrasion resistant overcoat (ARO) or moisture resistant overcoat (MRO) external pipe coatings, providing corrosion protection, chemical and soil stress resistance as well as excellent adhesion and cathodic disbondment protection. The Pro Series is designed for all types of pipelines, including severe environments.

Technical Parameters

PROPERTY	CONDITIONS	TYPICAL VALUES*
Cathodic Disbondment	28 days @ 1.5 V @ 20 °C (68 °F) 24 hr @ 3.5 V @ 65 °C (149 °F)	≤ 4 mm (0.16 in) ≤ 3 mm (0.12 in)
Flexibility (FBE) (FBE w/ Optional Topcoat)	2.5° / PD @ -30 °C (-22 °F) 1.5° / PD @ -30 °C (-22 °F)	No Cracking No Cracking
Impact Resistance (FBE w/ Optional Topcoat)	-30 °C (-22 °F)	≥ 1.5 J (1.11 lbf ft) No Holidays ≥ 3.0 J (2.21 lbf ft) No Holidays
Adhesion	24 hr @ 75 °C (167 °F)	Rating of 1 - 2

Notes

*Typical values meet or exceed regulatory requirements and are based on historical data, not to be interpreted as product specification.

**CSA Z245.20-18 Systems 1A, 2A, 2B, 2C & 3.



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