

PRODUCT DATASHEET



ULTRABOND-IIISE

PERMA-BOND[®] ANTI-CORROSION PIPE COATING



Temperature Range

-40 °C (-40 °F) to 85 °C (185 °F)

Pipe Sizes

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

Minimum Layer Thicknesses (Full System)

FBE ≥ 120 µm (4.7 mils)
Adhesive ≥ 100 µm (4.0 mils)
HDPE Option 1: ≥ 1 mm (40 mils)
Option 2: ≥ 1.5 mm (60 mils)
Bespoke thicknesses available

ULTRABOND-IIISE is a fully bonded 3-Layer external pipe coating, consisting of a fusion bonded epoxy (FBE) primer, polymeric adhesive intermediate layer, and a high density polyethylene (HDPE) outer jacket. This robust coating provides exceptional corrosion, chemical, soil stress, and moisture resistance, as well as superior adhesion, cathodic disbondment, and abrasion protection. This design is for all types of pipelines, including directional drilling, slip bores, road crossings, and rocky terrain.

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)	≤ 7 mm (0.28 in) ≤ 3 mm (0.12 in)
Impact Resistance	-30 °C (-22 °F)	5 J / mm of HDPE (0.09 lbf ft / mil)
Flexibility	2.5° / PD @ -30 °C (-22 °F)	No Cracking of HDPE
UV Resistance		≤ 2 years
HDPE Peel Adhesion	20 °C (68 °F)	350 N (78.7 lbf)
Gouge Resistance	75 kg (165 lbs) w/ R33 Bit @ -30 °C (-22 °F) 50 kg (110 lbs) w/ R33 Bit @ 20 °C (68 °F)	≤ 1.5 mm depth w/ no primer exposed ≤ 1.5 mm depth w/ no primer exposed

Notes

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

**CSA Z245.21-22 System B1.



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

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