

WrapidBond™

A visco-elastic adhesive based system for pipeline corrosion protection

WrapidBond™ is a wraparound corrosion protective coating consisting of a modified and reinforced visco-elastic adhesive applied onto a polyethylene carrier film. Supplied in roll form, WrapidBond™ provides effective corrosion protection by providing a barrier to water and oxygen. WrapidBond™ is for use on aboveground and underground pipelines, and steel structures.

Adhesion & Creep Resistance

- Specially formulated adhesive bonds to even the most difficult substrates and provides good elevated temperature creep resistance and resistance to soil stresses.
- Improved soil stress resistance is achieved with the installation of WrapidCoat™ PVC outer wrap.

Wide Range of Applications

- Diverse range of applications including: coating repair on new pipeline construction; transition areas from above to below ground pipelines; special sections such as bends, tees, flanges, etc.; rehabilitation of existing pipelines; tanks chimneys, etc.

Full System Approach

- Includes ultra flexible products, filler materials, weld bead and seam tapes, and Wrapid Coat™ PVC mechanical protection. Refer to the Wrapid Coat™ PVC product data sheet for more information.

Field Friendly

- Long shelf-life, with various widths available with convenient roll lengths for ease of inventory
- Fast installation with excellent adhesion to steel and other base surfaces without applying primer
- No drying or hardening time
- Plastic-elastic properties allow self healing ability if damaged

Sleeve Operating Characteristics Test Method Typical Value Maximum Pipeline Operating Temp. Up to 80°C (175°F) Resistance to Circumferential Forces Very Good Resistance to Soil Stress Very Good Resistance to Axial Pipe Movement Very Good Main Line Coating Compatibility PE, PP, FBE, PU, Coal tar, Bitumen Typical Product Properties Thickness Measured > 1.8 mm Density ASTM D792 1.1 - 1.3 g/cm³ Impact Resistance* EN 12068 15 J Indentation Resistance* EN 12068 0.60 mm remaining (pass) Peel Strength* EN 12068 > 0.5 N/mm Cohesive failure Lap Shear Strength EN 12068 0.02 N/mm² Glass Transition Temp. ASTM D3418 < -20°C Cathodic Disbondment Resistance* ASTM G8/EN 12068 2 mm @ 23°C Cathodic Disbondment Resistance* ASTM G42/ EN 12068 1 mm @ 60°C Electrical Resistance* EN 12068 > 1015 ohm/cm Unwinding Test @ -30°C EN 12068 No separation, tears or cracks Low Temp. Flexibility @ -30°C EN 12068 No separation, tears or cracks Water Absorption ASTM D570 < 0.05% Drip Resistance EN 12068 Pass at 90°C

