



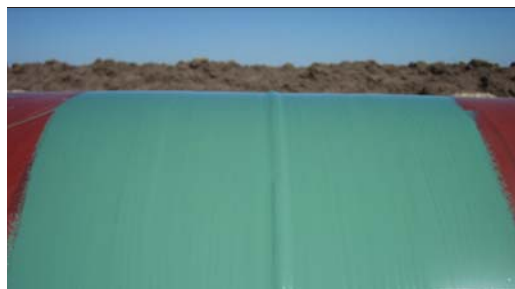
CASE STUDY

TRANSCANADA KEYSTONE PIPELINE

Girth Weld Protection



Mainline crew applying Protal 7200 to girth welds.



Protal 7200 exhibits outstanding "self-leveling" characteristics.



Repairing "holidays" with Protal 7200 Repair Cartridge.

Project Data

Location	Kansas
Completion	2011
Project Type	Girth Weld Protection
Products Used	Protal 7200
Contractor or Applied By	Sheehan Pipeline

Project Details

Upon completion, the TransCanada Keystone Pipeline will be over 2,100 miles stretching from Hardisty, Alberta Canada to Houston, Texas. The massive 36" crude oil pipeline is one of the world's largest pipeline projects which began 3 years ago and will continue for over the next 2 years. The project is being constructed in Spreads (approx. 100 miles each) with most contractors selecting Protal 7200 as the girth weld coating. Protal 7200 has outstanding physical properties and fast cure ability, which allows the contractors to use the same coating for the protection of all weld joints including girth welds, tie-ins and bore joints, as well as holiday repairs.

Protal 7200 is a two-part, 100% solids epoxy coating that can be applied in one coat up to 50 mils. Additionally, it has high impact and abrasion resistance for directional drill applications. Furthermore, the extremely fast cure makes it ideal for tie-ins and holiday repairs. Using Denso's "Accelerated Cure Specifications for Repairs", the contractors were able to achieve a 5 minute cure with the Protal 7200 when repairing holidays in the FBE during the pipeline "lowering-in" process.

Unlike FBE, which requires expensive and heavy equipment, Protal 7200 only requires a brush or roller to apply. The contractors were able to coat up to 150 weld joints per day without the costly risk of downtime due to equipment failure. Due to these cost savings, Protal 7200 is ideal for a variety of field applications including girth welds, tie-ins, HDD applications, station piping, fittings and repairs to FBE.

Benefits

- High Build (Up to 50 mils)
- Environmentally Friendly
- Excellent Adhesion
- High Abrasion Resistance
- Fast Dry and Set Time
- High Temperature Resistance (up to 185°F)

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