A Novel Interior Coating for Use in Oil Sands / Hydrotransport

Company: RO-Pilot GmbH

- 6 factories in Kuhnenhagen and Lingen, Germany; together 4500 m² of the largest scale PFU equipment manufacturer in Europe
- 100% subsidiary of the ROESSL group

Manufacturing volume: Polyurethane doubled from 2006 to 2008
- Manufacturing volume Polyurethane increases to ca. 1000 m³ from 2008 to 2009 (5% & 5% increase)

Technology Background

Unique properties of ROPlasthan®:
- Very high internal propagation and abrasion resistance
- Outstanding adhesion to metals and other materials
- Excellent chemical resistance
- Very high hydrophobic resistance
- Antiabiotic, food resistant [in fog], filled, and food quality grades
- Extreme low- and high temperature resistant grades

Interior Coating Applications

- Field-coated media - pipe abrasion is a serious cost factor - demanded and oil field coating - wear resistance and chemical corrosion resistant and destroy acid coated carbon steel pipes.
- Surfaces in oil sands pipelines - needs a higher resistance to abrasion, erosion, etches, media, high and low temperature, hydraulics.
- Property comparison polymer coatings

Solutions from RO-Pilot / ROPlasthan®:
- مجموعة من الحلول المتاحة
- Solutions for the mining and oil industry
- High resistance to abrasion and erosion
- High resistance to chemicals
- High resistance to high temperatures
- High resistance to low temperatures

Practical Considerations

**Coating of abrasion and vessels**

- Wearing coating as well as allowing you to work quickly following a RO-Pilot production which aims into the individual geometries and protects vessels.
- Wearing coating is always needed as very often vessels are repaired and maintenance is needed to form a seamless connection to the pipe coating (steel pipe)
- Upon inquiry, we will individually plan free coating for your vessels or specialty parts like elbows, etc.

**First Economy Estimate**

- Our novel interior coating is cost competitive to F64, PFU coatings and other “standard” coatings.
- For mill scale applications, coating thickness is increased to significantly higher abrasion resistance. Vessels should be repaired to meet our use conditions.
- Other means, the use of plugs, and other abrasion prevention methods are significantly more expensive than our use.

**Practical Considerations**

- Field Joint Coating

Field joints are covered in a way that is defined amount of coatings used to be a safeguard between failures.

For welded jobs, a stub & inlet is left in front of coating. After welding, surface preparation is to be carried out and undercoat material is to form a seamless connection to the line coating (steel pipe)

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