PT Coupling Company

PT z-COR
Ultimate Coating for Extreme Applications

www.ptcoupling.com

Made in USA

Distributed By:
PT z-COR is a revolutionary new coating system. Unlike single component coatings in the oil and gas industry, PT z-COR has been designed as a system of interdependent thin-film coatings working in concert to provide the ultimate protection for extreme enviroments. PT z-COR is the first holistic coating system designed to not only meet but exceed the needs of the oil and gas industry.

PT z-COR provides the highest level of base-metal corrosion protection on the market. The process used to coat the parts creates a superior bond that prevents chipping or peeling.

PT z-COR outlasts high density polyepoxide coatings with its abrasion and corrosion resistance. Unlike other products, PTz-COR provides 100% protection to the part against corrosion. This is achieved during the coating process when even the tiny threads and recesses are coated so that nothing is left vulnerable to chemical corrosion.

**Advantages**

- Lowest coefficient of friction & highest abrasion resistance on the market
- Prevents galling of threads
- Lower energy usage on fluid handling systems
- Extreme chemical resistance including H₂S, HCl & carbonic acid
- Resistant to over 120 chemicals commonly found in the petroleum industry
- Coats aluminum, brass, stainless steel and ductile iron
- Heat resistant up to 600°F
- Increases the life of equipment & reduces downtime
- Eliminates the costs associated with frequent replacement

**Corrosion Resistance** (ASTM G85 Salt Water Acceleration Test)

- Liquid: 240
- Powder: 500
- PTz-COR: 6,800

**Abrasion Resistance** (ASTM D4060)

- Liquid: 65
- Powder: 500
- PTz-COR: 16,200

**Coefficient of Friction**

- Aluminum: 1.35
- Plastic: 1.0
- Steel: .5
- PTz-COR: .016

*Two like surfaces, based on pressure.

*Average Coefficient of Friction
PT z-COR Coating Properties:

- **Dry Film Thickness**: 0.8 - 2.8 Mils (Controllable +/- 0.1 Mils)
- **Max Operating Temp**: 500°F
- **Pencil Hardness**: 6H
- **Coefficient of Friction**: 0.016 - 0.08
- **Tabor Abrasion (1000 Cycles)**: 7.3 mg lost
- **Tensile Strength**: 3,000 - 4,000 PSI
- **Salt Spray (ASTM B117)**: 4000 hours min
- **H₂O (10,000 PSI, 200°F)**: No Effect
- **Abrasion Resistance (D4060)**: 16,200
- **Direct Impact**: 100 lbs
- **Indirect Impact**: 120 lbs
- **Gloss**: 45-55
- **Color**: Dark Grey
- **Cross-Hatch Adhesion**: 5B
- **Gravelometer**: 6 Minimum

PT z-COR is resistant to the below chemicals:

<table>
<thead>
<tr>
<th>Acetone</th>
<th>Creosol</th>
<th>Isopropyl Alcohol</th>
<th>Potassium Hydroxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid</td>
<td>Diesel Fuel</td>
<td>Kerosene</td>
<td>Propyl Alcohol</td>
</tr>
<tr>
<td>Acetates (ALL)</td>
<td>Diethanolamine</td>
<td>Lactic Acid</td>
<td>Propylene Glycol</td>
</tr>
<tr>
<td>Amines (ALL)</td>
<td>Ethyl Acetate</td>
<td>Lauryl Acid</td>
<td>Salicylic Acid</td>
</tr>
<tr>
<td>Ammonia</td>
<td>Ethyl Alcohol</td>
<td>Magnesium</td>
<td>Salt Water</td>
</tr>
<tr>
<td>Ammonium Hydroxide</td>
<td>Ethyl Ether</td>
<td>Maleic Acid</td>
<td>Sodium Bisulfite</td>
</tr>
<tr>
<td>Amino Acids</td>
<td>Fructose</td>
<td>Menthol</td>
<td>Sodium Chloride</td>
</tr>
<tr>
<td>Benzene</td>
<td>Gasoline</td>
<td>Methanol</td>
<td>Sodium Hypochlorite 5%</td>
</tr>
<tr>
<td>Borax</td>
<td>Glucose</td>
<td>Methylene Chloride</td>
<td>Sodium Hydroxide &lt;10%</td>
</tr>
<tr>
<td>Boric Acid</td>
<td>Glycol</td>
<td>Methyl Ethyl Ketone</td>
<td>Sodium Sulfate</td>
</tr>
<tr>
<td>Butyl Alcohol</td>
<td>Glycol Ether</td>
<td>Methyl Isobutyl Ketone</td>
<td>Stearic Acid</td>
</tr>
<tr>
<td>Butyl Cellosolve</td>
<td>H₂CO₃</td>
<td>Mustard Gas</td>
<td>Sucrose</td>
</tr>
<tr>
<td>Butyric Acid</td>
<td>Hydrochloric Acid</td>
<td>Naphthol</td>
<td>Sulfuric Acid 25-28%</td>
</tr>
<tr>
<td>Calcium Chloride</td>
<td>Hydrofluoric Acid</td>
<td>Ozone</td>
<td>Sulfates (ALL)</td>
</tr>
<tr>
<td>Calcium Hypochlorite</td>
<td>Hydrogen Peroxide 5%</td>
<td>Perchloric Acid</td>
<td>Sulfides (ALL)</td>
</tr>
<tr>
<td>Carbon Tetrachloride</td>
<td>Hydrogen Sulfide</td>
<td>Phenol 85%</td>
<td>Sulfites (ALL)</td>
</tr>
<tr>
<td>Cetyl Alcohol</td>
<td>Hydrazine</td>
<td>Phosgene</td>
<td>Starch</td>
</tr>
<tr>
<td>Chlorides (ALL)</td>
<td>Hydroxylamine</td>
<td>Phenolphthalein</td>
<td>Toluene</td>
</tr>
<tr>
<td>Chlorine Gas</td>
<td>Iodine</td>
<td>Phosphoric Acid</td>
<td>Triethanolamine</td>
</tr>
<tr>
<td>Chromic Acid (NR)</td>
<td>Isobutyl Alcohol</td>
<td>Potassium Chloride</td>
<td>Xylene</td>
</tr>
<tr>
<td>Citric Acid</td>
<td></td>
<td></td>
<td>*100 Hour exposure time at ambient temperature with no effect.</td>
</tr>
</tbody>
</table>
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