**ChemLine® 784/31**

*A coating with superior chemical resistance and high temperature resistance.*

**Description**

ChemLine® 784/31 delivers significantly improved product performance and anti-corrosion resistance. ChemLine® 784/31 is formulated with unique polymer technology, designed and engineered with high functionality. This translates in up to 784 cross-links versus four (4) for high temperature epoxies.

**ChemLine® 784/31’s Higher Cross-Link Density Means:**
- Higher chemical resistance
- Higher temperature resistance
- Higher reactivity at lower temperature
- Higher resistance to absorption
- Higher toughness

**Industry Applications**

- **Chemical Processing** - Tanks, flare tanks, reactor vessels, hazardous waste hauling, etc.
- **Paper & Pulp** - Digesters, black liquor tanks, bleaching, etc.
- **Steel** - Pickling tanks, acid storage, acid waste, neutralization, etc.
- **Mining** - Acid tanks, scrubbers, etc.

**More Chemical Resistance Than:**
- Stainless steel
- Phenol epoxies
- Vinylesters
- Phenolic

**Product Highlights**

- Superior bond strength and adhesion
- Maximum product flexibility, product cycling
- Field repairable
- Low VOC - 99 grams/L (0.80 lbs./gallon)
- Can be applied to pitted and/or corroded steel
- Steam cleanable
- Complies with all FDA regulations
- Virtually non-permeable for product purity

**ChemLine® 784/31 Provides Superior Resistance To:**

- Acids, alkalies and solvents
- Thermal cycling -40°F to 400°F (-40°C to +204°C)
- Good flexibility
- Wear and abrasion resistant
- Minimal product absorption
- Impact resistant
- Resists under-creep corrosion
- Dry heat resistance to 500°F (260°C)

**Typical Properties**

- Stock Colors ____________________________ Gray, Red
- V.O.C. Level/Gal. ____________ 99 grams/L (0.80 lbs./gal.)
- Lead Content _______________________________ Zero
- Chromate Content ___________________________ Zero
- Pot Life __________________120 minutes @ 75°F (24°C)
- Viscosity Reduction _______ Reduce with Toluene or Xylene
- Solids by Volume ___________________________ 89.6%
- Recommended Film Thickness (dry) mils average
  - Steel: 12 mils (300 microns)
- Shelf Life ______________________________12 months

For product recommendations and technical, application and heat curing information contact Advanced Polymer Coatings’ customer service. Contact +01 440-937-6218.
The Technology; Epoxies, Vinylesters and ChemLine® 784/31 Form 3 Dimensional Screen-Like Structures when Cured

The Greater the Distance Between the Crosslinks, the Greater the Permeation Causing Chemical Attack and Absorption

The following diagrams represent the same coating cutaway (pictured left)

Problems with Epoxies and Vinylesters

Vinylester's and Epoxy's Open Screen Structure

*Aggressive Chemical Molecules Penetrate into and through the polymer groups attacking both the inner polymer structure and the substrate.*

ChemLine® 784’s Closed Screen Structure

*Aggressive Chemical Molecules cannot penetrate the high density surface. Inner polymer structure and substrate protected from chemical attack.*

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