ChemLINE® 784 ES
Elevated Service

A coating with superior chemical resistance and high temperature resistance.

Description
ChemLINE® 784 ES (Elevated Service) delivers significantly improved product performance and anti-corrosion resistance. ChemLINE® 784 ES is formulated with unique polymer technology, designed and engineered with 28 functional groups per molecule. This translates in up to 784 cross links versus four (4) for high temperature epoxies.

ChemLINE® 784 ES’s Higher Cross Link Density Means:

- Higher chemical resistance
- Higher temperature resistance
- Higher reactivity at lower temperature
- Higher resistance to absorption
- Higher toughness

Product Highlights

- Superior bond strength and adhesion
- Maximum product flexibility, product cycling
- Field repairable
- Low VOC - 143 grams/L (1.19 lbs. per gallon)
- Can be applied to pitted and/or corroded steel
- Steam cleanable
- Complies with FDA 21 CFR 175.300
- Non-permeable for product purity

ChemLINE® 784 ES 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)

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

Typical Properties (mixed, as supplied)

- Stock Colors ___________________________ Gray, Red
- V.O.C. Level/Gal. __________143 grams/L (1.19 lbs./gal.)
- Pot Life ______________120 minutes @ 75°F (24°C)
- Viscosity Reduction _______Reduce with Toluene or Xylene
- Solids by Volume ______________________ 84%
- 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 +1 440-937-6218.
The Technology; Epoxies, Vinylesters and ChemLINE® 784 ES Form 3 Dimensional Screen-Like Structures when Cured

The Greater the Distance Between the Cross links, 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

ChemLINE 784 ES’s Closed Screen Structure

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