Chem LINE® 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

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 143 grams/L (1.19 lbs. per gallon)
- Can be applied to pitted and/or corroded steel
- ► Steam cleanable
- ► Complies with FDA 21CFR 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)

Typical Properties (mixed, as supplied)

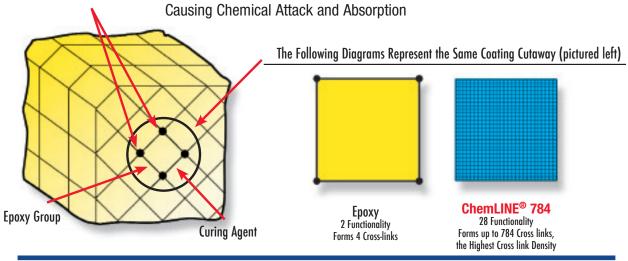
Stock Colors	Gray, Red
➤ V.O.C. Level/Gal	143 grams/L (1.19 lbs./gal.)
Pot Life	120 minutes @ 75°F (24°C)
➤ Viscosity Reduction	Reduce with Toluene or Xylene
Solids by Volume	84%
Recommended Film Thick	ness (dry) mils average
	Steel: 12 mils (300 microns)
➤ Shelf Life	12 months

For product recommendations and technical, application and heat curing information contact Advanced Polymer Coatings' customer service. Contact +1 440-937-6218.



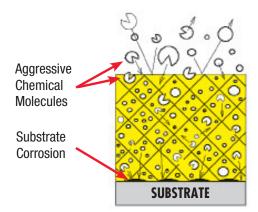
The Technology; Epoxies, Vinylesters and ChemLINE® 784 ES Form 3 Dimensional Screen-Like Structures when Cured

The Greater the Distance Between the Cross links, the Greater the Permeation



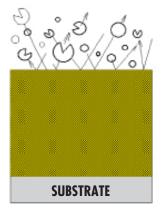
Problems with Epoxies and Vinylesters

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 ES'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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