ChemLINE® 784

A coating with superior chemical resistance and high temperature resistance.

Description

ChemLINE® 784 is a high functionality, two component thermoset polymer coating. When cured, the ChemLINE® 784 high cross link density is unlike other coatings. ChemLINE® 784 delivers significantly improved product performance and anti-corrosion resistance. ChemLINE® 784 coating is formulated with a unique high functionality polymer that is designed and engineered with 28 functional groups per molecule. This bridged aromatic backbone structure, when polymerized, forms up to 784 cross links.

ChemLINE® 784 cross links predominately through an ether (carbon-oxygen-carbon) linkage. This eliminates high concentrations of hydroxyl groups (found in epoxies) and precludes formation of ester groups (found in vinylesters) which are subject to hydrolysis and acid attack. ChemLINE® 784 can be ambient cured or lower temperature forced air cured depending on substrate and service conditions.

ChemLINE® 784 Higher Cross Link Density Means:

- Higher chemical resistance
- Higher toughness
- Higher heat resistance
- Higher resistance to abrasion

Provides Superior Chemical Resistance to:

- 98% Sulfuric Acid
- 37% Hydrochloric Acid
- 50% Sodium Hydroxide
- Most acids, alkalies, and solvents
- Methanol
- Methylene Chloride
- Acetic Acid

Industry Applications

- **Chemical Processing -** Tanks, vessels, hazardous waste, secondary containment, chemical plant floors, etc.
- **Paper & Pulp** - Digesters, black liquor tanks, bleaching, etc.
- **Mining** - Acid tanks, scrubbers, etc.
- **High Technology** - Clean rooms, floors, etc.
- **Power Generation** - FGD systems, ducts and stacks, etc.
- **Steel** - Pickling tanks, acid storage, acid waste neutralization.
- **Waste Water** - Tanks, clarifiers, flocculation basins, neutralization chambers, concrete containment, etc.

**contact a ChemLINE® representative for details on specific applications*

Product Highlights

- Superior corrosion resistance, exceptional toughness
- Superior bonding qualities
- Applied to pitted and/or corroded steel
- Maximum versatility; product cycling
- Ambient or lower temperature forced air cure
- Low VOC - 130 grams/liter (1.09 lbs. per gallon)
- Non-permeable, steam cleanable, and field repairable
- Resists hydroblasting
- Excellent UV resistance
- ChemLINE® 784 is generally recognized as safe (GRAS) for use in food contact applications in the United States*
- High impact resistance
- Dry heat resistance to 400° F (204° C)

Typical Properties (mixed, as supplied)

- Stock Colors _____ Gray, Red
- V.O.C. Level/Gal. _____ 130 grams/L (1.09 lbs./gal.)
- Pot Life _____ 30 minutes @ 75°F (24°C)
- Viscosity Reduction _____ Reduce with Toluene or Xylene
- Solids by Volume _____ 85%
- Recommended Film Thickness (dry) mils average
  _____ Steel: 12-14 mils (300-350 microns)
  _____ Concrete: 20-24 mils (500-600 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.

ADVANCED POLYMER COATINGS

ChemLINE® 784

A History of Performance

For more than a decade ChemLINE® coatings have withstood the tremendous stresses and extremes of chemical attack and abrasive wear. ChemLINE® has been proven worldwide under the most arduous operating conditions, from resisting the most aggressive chemicals to handling hot pipelines in sub-freezing temperatures, with a history of success. Based on this experience, the development of ChemLINE® 784 represents a quantum leap in chemical resistant polymer coatings.

Add to Your Profits — Specify ChemLINE® 784

For the full story on ChemLine®, contact APC or click onto our web site at www.adv-polymer.com for the most versatile, technologically advanced and cost effective protection available.

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