

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

## 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.

## 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**

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

# 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](http://www.adv-polymer.com) for the most versatile, technologically advanced and cost effective protection available.



The information provided by Advanced Polymer Coatings, Inc. (APC) for the application or repair of APC coatings is based upon protective coating industry standards and knowledge gained through observation of professional applicators throughout the world that have successfully applied APC coatings. APC does not exercise any control over selection of the applicator that applies or repairs APC coatings. By providing information APC is not representing, directly or by implication, that an applicator that is provided with this information will achieve a result that will pass without objection in the trade or industry, otherwise referred to as MERCHANTABILITY, or will meet the vessel owner's protective coating requirements, otherwise referred to as FITNESS FOR A PARTICULAR PURPOSE. The only warranty provided by APC through its information and literature is that all APC products when delivered will have been manufactured in accordance with APC's manufacturing procedures, will be accurately labeled, and when mixed, applied and cured in a controlled environment in accordance with APC's current written application guidelines will withstand chemical corrosion as set forth in APC's chemical compatibility reference guide. The chemical compatibility reference guide and

### Advanced Polymer Coatings

Avon, Ohio 44011 U.S.A.  
+1 440-937-6218 Phone  
+1 440-937-5046 Fax  
800-334-7193 Toll-Free USA & Canada



current application guidelines are available at [www.adv-polymer.com](http://www.adv-polymer.com). Any customer specific express warranty can only arise from a written warranty extended by APC to the specific customer identified in the writing. APC DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE THAT ARE CONTAINED IN ARTICLE 2 OF THE UNITED STATES UNIFORM COMMERCIAL CODE AND ANY SIMILAR WARRANTIES CONTAINED IN THE LAWS OF OTHER COUNTRIES WHERE APC PRODUCTS ARE DELIVERED OR APPLIED. ALL CONTRACTS FOR THE SALE OF APC PRODUCTS SHALL BE GOVERNED BY THE UNIFORM COMMERCIAL CODE WITHOUT REGARD TO ANY STATE VARIATIONS.

© Copyright 2024-04-03

[www.adv-polymer.com](http://www.adv-polymer.com)

TOMORROW'S SOLUTIONS TODAY