

ChemLINE® 784 HS

High Solids

A coating with superior chemical and high temperature resistance applied with plural component equipment in a one-coat application.

Description

ChemLINE® 784 HS (High Solids) is a high functionality, two component thermoset polymer coating. When cured, the ChemLINE® 784 HS high cross-link density is unlike other coatings. ChemLINE® 784 HS delivers significantly improved product performance and anti-corrosion resistance. ChemLINE® 784 HS coating is formulated with a unique polymer designed and engineered with high functionality. This bridged aromatic backbone structure, when polymerized, forms a tightly knit screen-like structure. ChemLINE® 784 HS crosslinks 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) that are subject to hydrolysis and acid attack. ChemLINE® 784 HS can be ambient cured or low temperature forced air cured depending on substrate and service conditions.*

ChemLINE® 784 HS's Higher Cross-Link Density Means:

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

Provides Superior Chemical Resistance to:

- ▶ 1-99% Sulfuric Acid
- ▶ Methanol
- ▶ Acetic Acid
- ▶ 37% Hydrochloric Acid
- ▶ Methylene Chloride
- ▶ 50% Sodium Hydroxide
- ▶ Most acids, alkalies, and solvents

Industry Applications

- ▶ **Transportation Equipment** - Rail tank and hopper cars, over-the-road tankers, barge tankers, tank containers (ISO tanks)
- ▶ **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 low temperature forced air cure
- ▶ Low VOC - 26 grams/L (0.22 lbs. per gallon)
- ▶ Virtually non-permeable, steam cleanable, and field repairable
- ▶ Resists hydroblasting
- ▶ Excellent UV resistance
- ▶ High impact resistance
- ▶ Dry heat resistance to 400° F (204° C)
- ▶ One or two coat application

Typical Properties (mixed, as supplied)

- ▶ Stock Colors _____ Grey
- ▶ V.O.C. Level/Gal. _____ 26 grams/L (0.22 lbs./gal.)
- ▶ Solids by Volume _____ 97%
- ▶ 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®

Coating	Description	Typical Applications	System/DFT
ChemLINE® 784 <i>previously: ChemLINE® 784/32</i>	Excellent chemical resistance, high functionality, two component low temperature cure polymer coating.	Reactors, chemical storage tanks, scrubbers, piping, ducts, rail cars, ISO tanks, OTR tankers, barge tanks, secondary containment, clean rooms, structural steel, manhole covers, vaults, & floors.	Steel: 2 coats. 300-350 microns. (12-14 mils). Concrete: 2 coats. 500-600 microns. (20-24 mils).
ChemLINE® 784 ES Elevated Service <i>previously: ChemLINE® 784/31</i>	Highly chemically resistant, high functionality, two component high temperature cure polymer coating, with high cure.	Tanks, pipes, & scrubbers.	Steel: 2 coats. 300-350 microns. (12-14 mils).
ChemLINE® 784 HS High Solids <i>previously: ChemLINE® 784/32 PC</i>	High solids, 1 or 2 coats, chemically resistant two component low temperature cure polymer coating.	Transportation - rail cars, OTR tankers, ISO tanks, barge tanks, & tanker ships.	Steel: 1 or 2 coats to achieve 300-350 microns. (12-14 mils).
ChemLINE® 784 AS Anti-Static	Static dissipating, chemically resistant, high functionality, two component low temperature cure polymer coating.	Clean rooms, flooring, ducts, structural steel, hopper cars, and where a static dissipating lining is required.	Steel: 2 coats. 300-350 microns. (12-14 mils). Concrete: 2 coats. 500-600 microns. (20-24 mils).
ChemLINE® 784 WS Wine & Spirits <i>previously: ChemLINE® EF</i>	FDA (GRAS) two component low temperature cure polymer coating for wine and spirits tanks.	Wine & spirits tanks.	Steel: 2 coats. 300-350 microns. (12-14 mils).
ChemLINE® 2400 Abrasion Resistant <i>previously: ChemLINE® 2400/32</i>	Abrasion and chemically resistant two component low temperature cure polymer coating.	Slurry tanks, scrubbers, dump trucks, bag houses, FGD units, tank containers, hopper cars, ion exchange vessels, secondary containment, and floors.	Steel: 2 coats. 400-450 microns. (16-18 mils). Concrete: 2 coats. 600-650 microns. (24-26 mils).
ChemLINE® 2400 ES Elevated Service <i>previously: ChemLINE® 2400/31</i>	Abrasion and highly chemically resistant two component high temperature cure polymer coating.	Tanks, pipes, & scrubbers.	Steel: 2 coats. 400-450 microns. (16-18 mils).



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



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

current application guidelines are available at 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 2024-04-01

