

The industry leading coating for aggressive applications, providing superior chemical resistance.





ChemLINE® Presents a History of Performance

ChemLINE[®] coatings from Advanced Polymer Coatings provide high performance corrosion protection. They are engineered using unique polymer technology to deliver excellent resistance to a wide range of aggressive chemicals.

ChemLINE[®] coatings offer outstanding features and benefits, which can include:

- Resistance to aggressive chemical exposures, including strong acids, alkalis, gases, solvents and oxidizers
- Superior bond strength and adhesion to metal substrates, composites and concrete
- Virtually non permeable film minimizing cargo absorption and assuring content purity
- Wear and abrasion resistance
- Outstanding flexibility
- Steam cleanable
- Field repairable

- Complies with all FDA regulations (GRAS)
- ► High temperature resistance up to 400°F (204°C)
- ► Thermal cycling resistance -40° to +400°F (-40° to 204°C)
- Resists hydroblasting
- Excellent conductive / static dissipating properties
- Low surface tension

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



Superior Corrosion Resistance Performance

		/	/ /	/	/
			₹/		e/
		• u / 4	ĝ / ,	/ ċ	δie /
	/1	[] [] []	s / dis		[?] /
	Cher	² her		Stai,	/
Acetaldehyde	A		N	A	ſ
Acetic Acid	A	N	N	A	
Acrolein Acid	A	Ν		A	
Acrylic Acid	A	N	Ν	A	
Acrylonitrile, (35°C)	A	Ν	N	A	
Ammonium Persulfate	А	Α	Α	L	
Azabenzene	Α	Ν	Ν	Α	1
Benzene	Α	Α	Ν	Α	
Benzene Carboxylic Acid	Α	Α	Ν	Α	
Benzoyl Chloride	Α	Ν	Ν	Ν	
B-Methacrylic Acid	Α	Ν	Ν	Α	
Bichromate of Soda	Α	Ν	Α	Α	
Bromine	Α	Ν	Ν	Α	
Butanoic Acid	А	Ν	_	Α	
Butyric Aldehyde	Α	Ν	Α	Α	
Calcium Hydroxide	А	Α	Α	Α	
Calcium Hypochlorite	Α	Α	Α	L	
Caustic Potash	А	Ν	Ν	Α	
Carbolic Acid	А	Ν	Ν	Α	
Chlorine Water	А	Ν	А	Ν	
Chlorosulfonic Acid	А	Ν	Ν	Ν	
Chlorinated Acetone	А	Ν	Ν	L	
Chloracetic Acid	А	Ν	Ν	L	
Chromic Acid, 20%	А	Ν	А	Ν	
Coal Tar Oil	А	Ν	Α	Α	
Coconut Fatty Acid	А	Α	Α	Α	
Colamine	A	Ν	Ν	Α	
Cresol	A	Ν		Α	
Dichloromethane	A	Ν	Ν	Α	
Detergents	А	Α	А	Α	
Diethyl Formamide	A	Ν	Ν	Α	
Diethylamine	А	Ν	Ν	Α	
Diethylene Chloride	A	Ν	Ν	L	
Diethyl Ether	A	Ν	Ν	Α	
Dimethylamide Acetate	A	Ν	—	Α	
Disulphuric Acid	A	Ν	_	Α	
EDTA	A	Ν	A	A	
Ethanolamine	A	Ν	Ν	A	
Ethonic Acid Anhydride	A	Ν	—	A	
Ethyl Acrylate	A	Α	Ν	A	
Fatty Acids	A	A	A	A	
Fatty Acid, Palm	A	Α	A	A	
Ferric Chloride	A	Ν	A	N	

/		/ /	. /	' /	/
/		Phenolic c.	<i>à</i> /	Stainless 2	tee/
		" / "	² / a		5
		' / ^{ij}	lest/	į le	' /
	Chemi	^{Phe}		Sta/	/
Flaked Stearic Acid	A	N	A	A	ĺ
Fluoraboric Acid*	A	N	_	N	ĺ
Formaldehyde	A	A	Α	A	ĺ
Formamide	A	Ν	_	А	1
Formic Acid 10%	A	N	Α	А	1
Green Liquor	A	N	Α	L	1
Glycerol	A	Ν	Ν	A	1
Grape Juice	A	Α	Α	А	1
Grapefruit Juice	A	Α	Α	А	1
Grease Oil	A	Α	Α	А	1
Heptanoic Acid	A	Α	_	A	1
Herring Oil	A	Α	A	А	ĺ
Hexahydroanaline	A	N	_	А	1
HMDA	A	N	_	А	1
Hydrazine	A	N	N	А	ĺ
Hydrobromic Acid	A	N	Α	Ν	1
Hydrochloric Acid	A	Ν	Α	Ν	1
10% Hydrofluoric Acid*	A	N	Α	Ν	1
5-20% Hydrogen Chloride	Α	N	_	Ν	1
10%-30% Hydrogen Sulfate	A	N	Α	А	1
Isobutanol	A	N	Α	А	1
Isobutyric Acid	A	N	_	А	1
Isopropyl Amine	A	Ν	Α	А	1
Javelle Water	Α	N	Α	Ν	1
Juices, Fruit	A	Α	Α	Α	1
Lactic Acid	A	A	Α	A	1
Lactonitrile	A	N	—	A	1
Latex	A	Α	Α	Α	1
Liquified Ammonia	A	Ν	Ν	А	1
Liquid Pitch Oil	A	Ν	Α	А	1
M-Phosphoric Acid**	A	Ν	Α	L	1
Maleic Anhydride	A	Ν	Α	A	1
MCA	A	Ν	_	A	1
Methacrylonitrile, (35°C)	Α	N	Ν	А	1
Methanamide	A	N	-	А	1
Methanol	A	N	Ν	А	1
MEK	A	L	Ν	А	1
Methylene Chloride	A	Ν	Ν	N	1
Monochloro Benzene	A	N	N	Ν	1
Naphtalene	A	N	Α	А	1
Nitric Acid 1-20%	A	N	Α	А	1
Nitro Benzene	A	Α	N	А	1
Nitrogen Fertilizers	A	Α	—	А	1
				_	

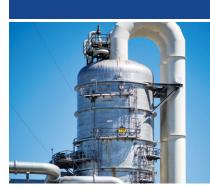
/	/	/		' /	/ /
		< Phenolic r	Nod:	> Staintoc	Stee/
			ester		8
	ChemL	Phei	Null Muja	Staii	/
Norval Amine	Α	Ν	Ν	Α	
Octanoic Acid	Α	Α	—	Α	
Orthonitro Benzene	Α	Ν	Ν	Ν	
Oleum	Α	Ν	Ν	Α	
Olive Oil Fatty Acid	Α	Α	А	Α	
Palm Oil Fatty Acid	Α	Α	А	Α	
Perchloroethylene	Α	Ν	Ν	Α	
Perchloric Acid	Α	Ν	Ν	Ν	
Phenol	Α	Ν	Ν	Α	
Phosphoric Acid	Α	Ν	А	Ν	
Phthalic Anhydride	Α	Ν	Α	Α	
Piperzine	Α	Ν	—	А	
Polyethylene Polyamines	Α	Ν	—	А	
Potassium Hydroxide	Α	Α	L	L	
Potassium Permanganate	Α	Α	А	L	
Propionic Acid	Α	Ν	Ν	Α	
Pyridine	Α	Ν	Ν	Α	
Rubber Extender Oils	Α	Α	Α	Α	
Rum	Α	Α	Α	Α	
Sodium Carbonate	Α	Ν	Α	Ν	
Sodium Dichromate	Α	Ν	Α	Α	
Sodium Hydroxide	Α	Α	Α	L	
Sodium Sulfide	Α	Α	N	N	
Stannic Chloride	Α	Α	А	N	
Stearic Acid	Α	Α	Α	Α	
Spent Sulfuric Acid	Α	Ν	N	Α	
Sulfur	Α	Ν	N	Α	
Sulfuric Acid 1-70%	Α	Α	Α	N	
Sulfuric Acid 70-99%	Α	Ν	N	L	
Sulphurous Acid	Α	Ν	N	Α	
Tall Oil	Α	Α	Α	Α	
Tallow Acid	Α	Α	N	Α	
Tar Acid	Α	N	Α	Α	
Tetra Chloroacetic Acid	Α	Ν	N	N	
Tetra Hydrofurfuryl Alcohol	Α	N	N	A	
Toluene Diamine	A	N	N	A	
Toluol	Α	L	L	Α	
Valeraldehyde	Α	N	_	A	
Vinegar	Α	N	A	Α	
Vitriol Oil 65%	A	N	A	Α	
Water, Acid	A	N	N	Α	
Xylenol	A	N	N	A	

 $\label{eq:lambda} \begin{array}{ll} \textbf{A} = \text{Good at ambient temperatures (35°C/95°F)} & \textbf{L} = \text{Limited Service} & \textbf{N} = \text{Not recommended} \\ ^{*} \text{ChemLINE}^{\otimes} \mbox{2400 Series} & ^{**} \text{ChemLINE}^{\otimes} \mbox{784 Series} \end{array}$

Corrosion resistance data for Phenolic Epoxy, Vinylester and Stainless Steel from published literature.

This is Only A Reference Guide. Contact your ChemLINE[®] Representative or the ChemLINE[®] Customer Service Hotline +1 440-937-6218 for detailed specifications prior to any final coatings recommendation or application.

ChemLINE[®] Provides Enhanced Corrosion Protection



PETROLEUM & REFINING

Petro/Chemical



CHEMICAL PROCESSING

RAIL

- Processing Tanks
- Pipes
- Digesters
- Reaction Vessels
- Bulk Storage
- Tanks



Transportation



 ChemLINE[®] coatings provide an advanced tank lining protection for transportation equipment. ChemLINE[®]'s unique cross linked polymer structure creates a virtually non-permeable surface, thus providing corrosion resistance while ensuring product purity.





BARGES



ISO TANK CONTAINERS (Class 8 Corrosion Cargoes)



TANK STORAGE & TERMINALS

Industrial



POWER GENERATION

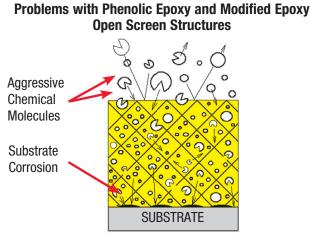
Stacks

- Scrubbers
- Duct Work
- Waste Treatment
- Pipes
- Secondary Containment

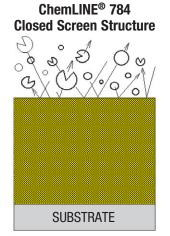
Patented Polymer Technology Delivers Results

Compare the Superior Performance Capability of ChemLINE®

• Higher chemical resistance • Higher temperature resistance • Resistance to permeation (absorption)



Aggressive chemical molecules penetrate into and through the polymer groups attacking both the inner polymer structure and the substrate.



Aggressive chemical molecules cannot penetrate the high density surface. Inner polymer structure and substrate protected from chemical attack.

ChemLINE[•] Quick Reference Chart

Coating	Eron.	Elen, Chemical,	Har Service Contraction	FID. FID.	Hind Compiliant (CC)	40, 50105 10. 2010	^{10/6/1} Cure Coqts	Ster, Hestight	Anni Cleanable	Plue	Fact Component	Field	The Again able	Tem. Coling Ac	Bolature Displaying
ChemLINE [®] 784	1		1	1		1		1				1	1		
ChemLINE [®] 784 ES Elevated Service	1	1	1					1				1	1		
ChemLINE [®] HS High Solids	1		1	1	1	1		1		1	1	1	1		
ChemLINE [®] 784 AS Anti-Static	1		1			1		1	1			1	1		
ChemLINE [®] 784 WS Wine & Spirits	1		1	1		1		1				1	1		
ChemLINE [®] TC Thermal Cycling	1	1						1				1	1		
ChemLINE [®] TD Temperature Dissipating	1							1				1	1	1	
ChemLINE [®] 2400 Abrasion Resistant	1		1			1	1	1				1	1		
ChemLINE [®] 2400 ES Elevated Service	1	1	1				1	1				1	1		

(1) These ChemLINE[®] coatings are generally recognized as safe (GRAS) for food grade cargoes. ChemLINE[®] coatings comply with the FDA and all applicable food additive regulations. *This data is only to be used as a general guide for product properties. A formal recommendation should be obtained from APC prior to any purchase or specification of material.*



Coating	Description	Typical Applications	System/DFT
ChemLINE® 784 previously: ChemLINE® 784/32	Excellent chemical resistance, high functionality, two com- ponent 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 previously: ChemLINE [®] 784/31	Highly chemically resistant, high functionality, two com- ponent high temperature cure polymer coating, with high cure.	Tanks, pipes, & scrubbers.	Steel: 2 coats. 300-350 microns. (12-14 mils).
ChemLINE [®] HS High Solids previously: ChemLINE [®] 784/32 PC	High solids, 1 or 2 coats, chemically resistant two com- ponent 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 tempera- ture 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 previously: ChemLINE [®] EF	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 [®] TC Thermal Cycling previously: ChemLINE [®] LE	Flexible, thermal cycling resis- tance and chemically resistant two component high tempera- ture cure polymer coating.	Stacks, ducts, heat exchangers, pressure vessels, FGD systems, bag houses, & scrubbers.	Steel: 2 coats. 300-350 microns. (12-14 mils).
ChemLINE [®] TD Temperature Dissipating previously: ChemLINE [®] TDC	Temperature dissipating, chemically resistant, two component high temperature cure polymer coating.	HOT steel structures, steam pipes, Corrosion Under Installation (CUI).	Steel: Multiple coats. 750-2,000 microns. (30-80 mils).
ChemLINE® 2400 Abrasion Resistant previously: ChemLINE® 2400/32	Abrasion and chemically resistant two component low temperature cure polymer coating.	Slurry tanks, scrubbers, dump trucks, bag houses, FGD units, tank contain- ers, 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 previously: ChemLINE® 2400/31	Abrasion and highly chemi- cally resistant two component high temperature cure poly- mer coating.	Tanks, pipes, & scrubbers.	Steel: 2 coats. 400-450 microns. (16-18 mils).

Other APC products offered that complement ChemLINE[®] coatings include: ChemLINE[®] Primer for superior bonding and sealing properties; ChemLINE[®] Caulk and ChemLINE[®] Putty offer excellent chemical resistance and flexibility.



The information contained in this brochure is intended to show the broad range of applications where Advanced Polymer Coatings' products have been used. This brochure is not an offer to sell any product. The information provided is not a warranty that Advanced Polymer Coatings' products are suitable for any specific service condition. All products sold by Advanced Polymer Coatings come with a warranty that the product supplied is suitable for the service condition disclosed by the customer prior to sale when properly applied. Advanced Polymer Coatings will not warrant the quality of the application work performed by others and shall have no liability for in service product failure resulting from improper application. Advanced Polymer Coatings offers a range of products for different service conditions. In the event a product supplied by Advanced Polymer Coatings is shown to be inadequate for the customer's conditions of service, Advanced Polymer Coatings shall, in its discretion, provide an alternative product or refund

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



the purchase price and freight charges it received for the product. The replace or refund warranty given at the time of sale is the sole and exclusive warranty provided by Advanced Polymer Coatings. ALL IMPLIED WARRANTIES ARE DISCLAIMED, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. The products sold by Advanced Polymer Coatings are not intended for personal or household use. Advanced Polymer Coatings' products should only be used by professional applicators who have familiarized themselves

with the written Manufacturer Safety Data Sheets and Application Guidelines available at www.adv-polymer.com.



© Copyright 2019-03-11 APC1017