





Advanced Polymer Coatings[®] is proud to bring you our Gridlock Technology[™], one of the most groundbreaking discoveries in coating history.

Powered by Gridlock, ChemLINE® outperforms conventional tank lining technologies doubling, and even tripling the service life of our ChemLINE® Coating System providing superior chemical resistance, unmatched permeability protection, and strong abrasion and impact resistance.

These characteristics not only afford a reduction in the overall cost of ownership but a dramatic decrease in the maintenance of your tank lining system, further proving ChemLINE® is truly a one-of-a-kind product in the marketplace.

Gridlock provides 4-7 times more reactive sites per polymer versus the competition to generate the level of crosslinks that drive superior performance characteristics. By utilizing Gridlock Technology™, ChemLINE® can achieve up to 784 crosslinks compared to only four crosslinks in a traditional bi-functional epoxy.

With a low-to-moderate crosslink density, Novolac/Phenolic epoxies are susceptible to penetration from aggressive chemicals, which eventually will reach the substrate causing lining failure.

Functionality

Crosslinking

Density

Industry Leading
Chemical Resistance

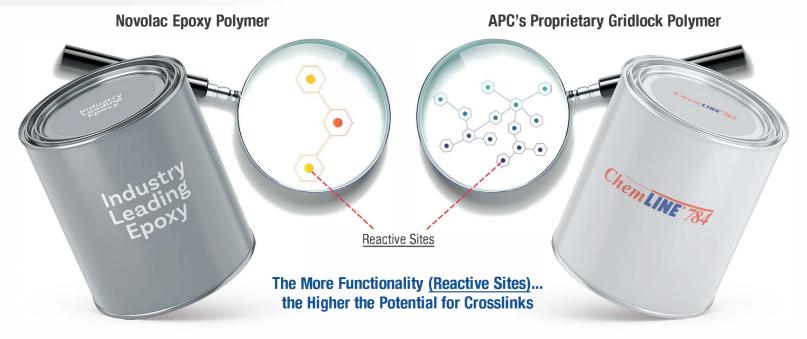
ChemLINE® 784 POWERED BY TECHNOLOGY

Functionality

Figure 1. Polymer vs. Polymer

The Novolac Epoxy Polymer and APC's Proprietary Polymer in a normal, un-heat-cured state.

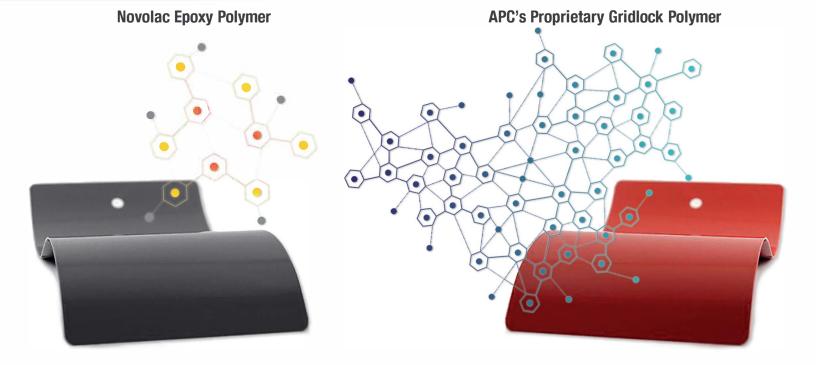
Notice the number of <u>reactive sites</u> each polymer contains. The depiction below represents a traditional Novolac/Phenolic Epoxy Polymer, compared to APC's Gridlock Technology ™-driven, high functionality polymer that provides our ChemLINE® Coating System with unmatched chemical resistance.



Crosslinking

Figure 2. After the Coating is Applied, the Crosslinking Begins...

The Novolac Epoxy binds with curatives, creating the structure on the left achieving low crosslink density, leaving it open to chemical attack. APC's Gridlock Technology™ seeks out lower molecular weight reactive components and curatives to form the structure shown on the right achieving the industry's highest crosslink density and closed screen structure which is impermeable to chemical attack.

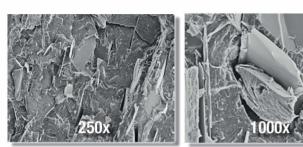


Density

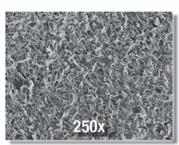
Figure 3. Gridlock Technology Magnified

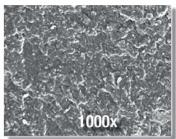
A magnified view of a Novolac Epoxy coating compared to the ChemLINE® Coating System shows the crosslink density achieved through Gridlock Technology $^{\text{TM}}$ at 250x and 1 000x magnification. The image on the right clearly shows that a higher crosslink density produces a lining that forms a virtually impermeable barrier for maximum substrate protection. Images courtesy of TUBITAK Research Facility in Ankara, Turkey.

Novolac Epoxy Polymer



ChemLINE® Coating System



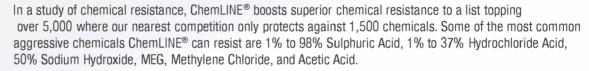


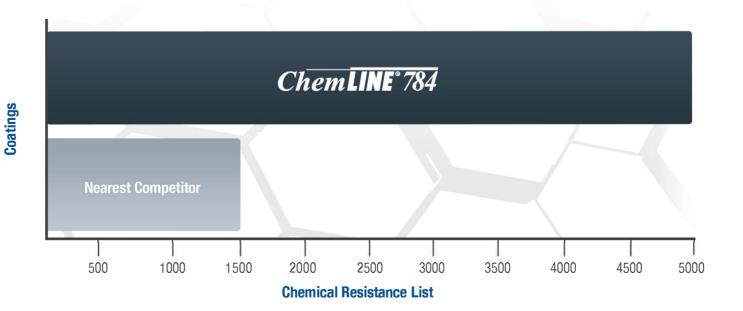
Higher Crosslink Density Delivers:

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

Industry Leading Chemical Resistance

Figure 4. ChemLINE® vs. The Competitor





Superior Corrosion Resistance Performance

	•						
		/	/ /	/ 6/	/ /	/	/
			Phenolic		<u>s</u> / 3	s Ste	/
		Chemi	henoi		Stainle	3/	
ı	Acetaldehyde	A		/ <u>~</u>	A		F
	Acetic Acid	A	N	N	A		ŀ
	Acrolein Acid	A	N		A		ŀ
	Acrylic Acid	A	N	N	A		
	Acrylonitrile, (35°C)	A	N	N	A		H
	Ammonium Persulfate	A	A	A	L		-
	Azabenzene	A	N	N	A		
	Benzene	A	A	N	A		
	Benzene Carboxylic Acid	A	A	N	A		
	Benzoyl Chloride	A	N	N	N		
	B-Methacrylic Acid	A	N	N	A		H
	Bichromate of Soda	A	N	A	A		H
	Bromine	A	N	N	A		l i
	Butanoic Acid	A	N	_	A		H
	Butyric Aldehyde	A	N	Α	A		H
	Calcium Hydroxide	Α	Α	Α	Α		l
	Calcium Hypochlorite	А	А	A	L		H
	Caustic Potash	Α	N	N	Α		-
	Carbolic Acid	Α	N	N	Α		ļ
	Chlorine Water	Α	N	Α	N		-
	Chlorosulfonic Acid	Α	N	N	N		ı
	Chlorinated Acetone	Α	N	N	L		ī
	Chloracetic Acid	Α	N	N	L		ī
	Chromic Acid, 20%	Α	N	Α	N		Ι,
	Coal Tar Oil	А	N	Α	Α		Ţ
	Coconut Fatty Acid	Α	Α	Α	Α		ı
	Colamine	Α	N	N	Α		ı
	Cresol	Α	N	_	Α		ī
	Dichloromethane	Α	N	N	Α		ı
	Detergents	Α	Α	Α	Α		l
	Diethyl Formamide	Α	N	N	Α		1
	Diethylamine	Α	N	N	Α		1
	Diethylene Chloride	Α	N	N	L		1
	Diethyl Ether	Α	N	N	А		1
	Dimethylamide Acetate	Α	N	1	А		1
	Disulphuric Acid	Α	N	I	Α		1
	EDTA	Α	N	Α	А		1
	Ethanolamine	Α	N	N	Α		1
	Ethonic Acid Anhydride	Α	N	_	Α		1
	Ethyl Acrylate	Α	Α	N	Α		1
	Fatty Acids	Α	Α	Α	Α		1
	Fatty Acid, Palm	Α	Α	Α	Α		1
	Ferric Chloride	Α	N	Α	N		1

	Chemi	Phenotics	inyless	Stainles	less Steel
Flaked Stearic Acid	A	N	/ <u> </u>	A	/ ı
Fluoraboric Acid*	A	N	_	N	
Formaldehyde	A	A	Α	Α	
Formamide	A	N	_	A	
Formic Acid 10%	A	N	Α	A	
Green Liquor	A	N	A	L	
Glycerol	Α	N	N	Α	
Grape Juice	A	A	A	A	
Grapefruit Juice	A	A	A	A	
Grease Oil	Α	Α	Α	Α	
Heptanoic Acid	Α	Α	_	Α	
Herring Oil	Α	Α	Α	Α	
Hexahydroanaline	Α	N	_	Α	
HMDA	Α	N	_	Α	
Hydrazine	Α	N	N	Α	
Hydrobromic Acid	Α	N	Α	N	
Hydrochloric Acid	Α	N	Α	N	
10% Hydrofluoric Acid*	Α	N	Α	N	
5-20% Hydrogen Chloride	Α	N	_	N	
10%-30% Hydrogen Sulfate	Α	N	Α	Α	
Isobutanol	Α	N	Α	Α	
Isobutyric Acid	Α	N	_	Α	
Isopropyl Amine	Α	N	Α	Α	
Javelle Water	Α	N	Α	N	
Juices, Fruit	Α	Α	Α	Α	
Lactic Acid	Α	Α	Α	Α	
Lactonitrile	Α	N	_	Α	
Latex	Α	Α	Α	Α	
Liquified Ammonia	Α	N	N	Α	
Liquid Pitch Oil	Α	N	Α	Α	
M-Phosphoric Acid**	Α	N	Α	L	
Maleic Anhydride	Α	N	Α	Α	
MCA	Α	N	-	Α	
Methacrylonitrile, (35°C)	Α	N	N	Α	
Methanamide	Α	N	_	Α	
Methanol	Α	N	N	Α	
MEK	Α	L	N	Α	
Methylene Chloride	Α	N	N	N	
Monochloro Benzene	Α	N	N	N	
Naphtalene	Α	N	Α	Α	
Nitric Acid 1-20%	Α	N	Α	Α	
Nitro Benzene	Α	Α	N	Α	
Nitrogen Fertilizers	Α	Α	_	Α	

Norval Amine Octanoic Acid A A A Cotanoic Acid A Cothonitro Benzene A N N N Olive Oil Fatty Acid A Palm Oil Fatty Acid A Perchloroethylene A N N N Perchloric Acid A N N N A Perchloric Acid A N N N Phenol A N N N N Phenol A N N N Phenol A N N N A Polyethylene Polyamines A N Polyethylene Polyamines A N Potassium Hydroxide A R R R R R R R R R R R R R R R R R R	/	/	/ /	/ _/	/ /	/ ~
Norval Amine	/		<u>"</u> /	Fpox	_{to} /	s Ste
Norval Amine A N N A Octanoic Acid A A A A A Orthonitro Benzene A N N N N Olive Oil Fatty Acid A A A A A Palm Oil Fatty Acid A A A A A Perchloroethylene A N N A A Perchloric Acid A N N A <		(m)				8/
Norval Amine A N N A Octanoic Acid A A A A A Orthonitro Benzene A N N N N Olive Oil Fatty Acid A A A A A Palm Oil Fatty Acid A A A A A Perchloroethylene A N N A A Perchloroethylene A N N A		/5	18		<u>/ 👸</u>	/
Orthonitro Benzene A N N A Oleum A N N A Olive Oil Fatty Acid A A A A Palm Oil Fatty Acid A A A A Perchloric Acid A N N A Perchloric Acid A N N A Phenol A N A N Phenol A N A N Phosphoric Acid A N A A Phosphoric Acid A N A A Piperzine A N A A Polyethylene Polyamines A N — A Polyethylene Polyamines A N — A Potassium Hydroxide A A A L Potassium Permanganate A A A A Ruber Extender Oils A A A A <td></td> <td>Α</td> <td>N</td> <td>N</td> <td>Α</td> <td></td>		Α	N	N	Α	
Oleum A N N A Olive Oil Fatty Acid A A A A Palm Oil Fatty Acid A A A A Perchloroethylene A N N A Perchloric Acid A N N A Phenol A N N A Phosphoric Acid A N A N Phosphoric Acid A N A A Phosphoric Acid A N A A Piperzine A N A A Polyethylene Polyamines A N — A Potassium Hydroxide A A L L Potassium Permanganate A A A L Propionic Acid A N N A Rum A A A A A Rum A A A A	Octanoic Acid	Α	Α	_	Α	
Olive Oil Fatty Acid A A A A Palm Oil Fatty Acid A A A A Perchloroethylene A N N A Perchloric Acid A N N N Phenol A N A N Phosphoric Acid A N A A Phosphoric Acid A N A A Phythalic Anhydride A N A A Piperzine A N — A Polyethylene Polyamines A N — A Potassium Hydroxide A A A L Potassium Permanganate A A A L Projonic Acid A A A A A Pyridine A A A A A Rubber Extender Oils A A A A Rum A A	Orthonitro Benzene	Α	N	N	N	
Palm Oil Fatty Acid A A A A Perchloroethylene A N N A Perchloric Acid A N N A Phenol A N N A Phosphoric Acid A N A N Phosphoric Acid A N A A Phythalic Anhydride A N A A Piperzine A N — A Polyethylene Polyamines A N — A Potassium Hydroxide A A L L Potassium Permanganate A A A L Potassium Permanganate A A A L Potassium Permanganate A A A A Potassium Permanganate A N N A Rubber Extender Oils A A A A Rubwin A A A	Oleum	Α	N	N	Α	
Perchloroethylene Perchloric Acid A R Romol A R Rhosphoric Acid A R Rhosphoric Acid A R Rhosphoric Acid A R Rhosphoric Acid A R Ripierzine A R Rolyethylene Polyamines A R Rotassium Hydroxide A R Rum A Rum A Rum A Rodium Carbonate A Rodium Sulfide A R R Rodium Sulfide A R R R R R R R R R R R R R R R R R R	Olive Oil Fatty Acid	Α	Α	Α	Α	
Perchloric Acid Phenol A N N N A Phenol A N N A N Phosphoric Acid A N Phthalic Anhydride A N Piperzine A Polyethylene Polyamines A N Potassium Hydroxide A R Potassium Permanganate A R Propionic Acid A N N A R Rum A R Sodium Carbonate A Sodium Dichromate A Sodium Sulfide A A A A A C Sodium Sulfide A A A A A C Sodium Sulfide A A A A A C Sodium Carbonate A C C C C C C C C C C C C C C C C C C	Palm Oil Fatty Acid	Α	Α	Α	Α	
Phenol A N A N A N Phosphoric Acid A N A N A A Piperzine A N A A A Piperzine A N A A A A Polyethylene Polyamines A N A A L L Potassium Hydroxide A N A A L L Potassium Permanganate A A A A L Propionic Acid A N N A A A Rubber Extender Oils A A A A A A A Rum A A A A A A A A A A A A A A A A A A A	Perchloroethylene	Α	N	N	Α	
Phosphoric Acid A N A A A Piperzine A N — A A Piperzine A N — A A Polyethylene Polyamines A N — A L L Potassium Hydroxide A N N — A A L Propionic Acid A N N A A A Pyridine A N N A A A A A A A A A A A A A A A A	Perchloric Acid	Α	N	N	N	
Phthalic Anhydride A N A A Piperzine A N — A A Polyethylene Polyamines A N — A A Potassium Hydroxide A A A L L Protassium Permanganate A N N A A L Propionic Acid A N N A A A A A A A A A A A A A A A A	Phenol	Α	N	N	Α	
Piperzine A N — A Polyethylene Polyamines A N — A Potassium Hydroxide A A A L Potassium Permanganate A N N A Pyridine A N N A Rubber Extender Oils A A A A A Rum A A A A Sodium Carbonate A N A A Sodium Dichromate A N A A Sodium Hydroxide A N A A A Sodium Bulfide A N A A A Sodium Sulfide A A A A A Sodium Sulfide A A A A A Stearic Acid A A A A A Spent Sulfuric Acid A A A A Sulfur A N A Sulfur A N A A Sulfur A N A A Sulfur A A A A A Sulfur A A A A Sulfur A A A A A Sulfuric Acid 1-70% A A A A A Sulfuric Acid 70-99% A N N A Sulfuric Acid 70-99% A N N A Tall Oil A A A A A Tar Acid A A A A Tar Acid A A A A Tetra Chloroacetic Acid A N N A Toluene Diamine A N N A Toluene Diamine A N N A Viriol Oil 65% A N A A Vitriol Oil 65% A N A A Water, Acid A N A A	Phosphoric Acid	Α	N	Α	N	
Polyethylene Polyamines A N — A Potassium Hydroxide A A A L Potassium Permanganate A N N A Propionic Acid A N N A Rubber Extender Oils A A A A A Rum A A A A A Sodium Carbonate A N A A A Sodium Dichromate A N A A Sodium Dichromate A N A A Sodium Hydroxide A A A A A Sodium Sulfide A A A N N Stannic Chloride A A A A A Stanic Chloride A A A A A Spent Sulfuric Acid A N N A Sulfur A N N A Sulfuric Acid 1-70% A A A A N Sulfuric Acid 70-99% A N N A Tall Oil A A A A Tall Oil A A A A Tetra Chloroacetic Acid A N N N Tetra Hydrofurfuryl Alcohol A N N N Toluene Diamine A N N A Viriol Oil 65% A N A A Vitriol Oil 65% A N N A Vitriol Oil 65% A N A A VI L L L L L L L L L L L L L L L L L Valeraldehyde A N A A Vitriol Oil 65% A N A A A A Vitriol Oil 65% A N A A A A Vitriol Oil 65% A N A A A A Vitriol Oil 65% A N A A A A Vitriol Oil 65% A N A A A A Vitriol Oil 65% A N A A A A A Vitriol Oil 65% A N A A A A A A Vitriol Oil 65% A N A A A A A A Vitriol Oil 65% A N A A A A A A A A Vitriol Oil 65% A N A A A A A A A Vitriol Oil 65% A N A A A A A A A A A A A A A A A A A A	Phthalic Anhydride	Α	N	Α	Α	
Potassium Hydroxide Potassium Permanganate Potassium Permanganate Propionic Acid A N N A Pyridine A Rubber Extender Oils A Rum A A A A A A A A A A A A A A A A A A A	Piperzine	Α	N	_	Α	
Potassium Permanganate A A L Propionic Acid A N N A Pyridine A N N A Rubber Extender Oils A A A A Rum A A A A Sodium Carbonate A N A A Sodium Dichromate A N A A Sodium Hydroxide A A A A Sodium Sulfide A A A A Stanric Chloride A A A A Stanric Acid A A A A Sulfuric Acid A N N A Sulfuric Acid 70-99% A N N A	Polyethylene Polyamines	Α	N	ı	Α	
Propionic Acid A N N A Pyridine A N N A Rubber Extender Oils A A A A Rum A A A A Sodium Carbonate A N A A Sodium Dichromate A N A A Sodium Hydroxide A A A L Sodium Sulfide A A A N Sodium Sulfide A A A A Stannic Chloride A A A A Stanic Chloride A A A A Stearic Acid A A A A Sulfuric Acid A A A A Sulfuric Acid 1-70% A A A N Sulfuric Acid 70-99% A N N A Sulfuric Acid 70-99% A N N A	Potassium Hydroxide	Α	Α	L	L	
Pyridine A N N A Rubber Extender Oils A A A A Rum A A A A Sodium Carbonate A N A N Sodium Dichromate A N A A Sodium Dichromate A N A A Sodium Hydroxide A A A L Sodium Sulfide A A A N Stannic Chloride A A A A Stannic Chloride A A A A Stearic Acid A A A A Sulfuric Acid A A A A Sulfuric Acid 1-70% A A A N Sulfuric Acid 70-99% A N N A Sulfuric Acid 70-99% A N N A Tall Oil A A A A	Potassium Permanganate	Α	Α	Α	L	
Rubber Extender Oils A A A A Rum A A A A Sodium Carbonate A N A N Sodium Dichromate A N A A Sodium Dichromate A N A A Sodium Hydroxide A A A L Sodium Sulfide A A A N N Stannic Chloride A A A A A A Stearic Acid A N N A A A N N A A A A N A A A	Propionic Acid	Α	N	N	Α	
Rum A A A A Sodium Carbonate A N A N Sodium Dichromate A N A A Sodium Hydroxide A A A L Sodium Sulfide A A A N Sodium Sulfide A A A N Stannic Chloride A A A A Stearic Acid A A A A Stearic Acid A A A A A A A A A Sulfuric Acid A N N A Sulfuric Acid 1-70% A A A N Sulfuric Acid 70-99% A N N A Sulfuric Acid 70-99% A N N A Tall Oil A A A A A Tall Oil A A A A A	Pyridine	Α	N	N	Α	
Sodium Carbonate A N A N Sodium Dichromate A N A A Sodium Hydroxide A A A L Sodium Sulfide A A N N Stannic Chloride A A A A Stearic Acid A A A A Spent Sulfuric Acid A N N A Sulfur A N N A Sulfuric Acid 1-70% A A A N Sulfuric Acid 70-99% A N N L Sulphurous Acid A N N A Tall Oil A A A A Tallow Acid A A A A Tetra Chloroacetic Acid A N N A Tetra Hydrofurfuryl Alcohol A N N A Toluol A L L A	Rubber Extender Oils	Α	Α	Α	Α	
Sodium Dichromate A N A A Sodium Hydroxide A A A L Sodium Sulfide A A N N Stannic Chloride A A A A Stearic Acid A A A A Sulfuric Acid A N N A Sulfur A A A N Sulfuric Acid 1-70% A A A N Sulfuric Acid 70-99% A N N L Sulphurous Acid A N N A Tall Oil A A A A Tallow Acid A A A A Tetra Chloroacetic Acid A N N A Tetra Hydrofurfuryl Alcohol A N N A Toluene Diamine A N N A Toluol A L L A <td>Rum</td> <td>Α</td> <td>Α</td> <td>Α</td> <td>Α</td> <td></td>	Rum	Α	Α	Α	Α	
Sodium Hydroxide A A A L Sodium Sulfide A A N N Stannic Chloride A A A A Stearic Acid A A A A Spent Sulfuric Acid A N N A Sulfur A N N A Sulfuric Acid 1-70% A A A N Sulfuric Acid 70-99% A N N L Sulphurous Acid A N N A Tall Oil A A A A Tallow Acid A A A A Tar Acid A N A A Tetra Chloroacetic Acid A N N A Toluene Diamine A N N A Toluol A L L A Viergar A N A A	Sodium Carbonate	Α	N	Α	N	
Sodium Sulfide A A N N Stannic Chloride A A A N N Stearic Acid A A A A A Sulfuric Acid A N N A Sulfuric Acid 1-70% A A A N Sulfuric Acid 70-99% A N N L Sulphurous Acid A N N A Tall Oil A A A A Tar Acid A A A A Tetra Chloroacetic Acid A N N A Tetra Hydrofurfuryl Alcohol A N N A Toluene Diamine A N N A Toluol A L L A Vinegar A N A A Vitriol Oil 65% A N N A A N N A <td>Sodium Dichromate</td> <td>Α</td> <td>N</td> <td>Α</td> <td>Α</td> <td></td>	Sodium Dichromate	Α	N	Α	Α	
Stannic Chloride A A A A A Stearic Acid A A A A A Spent Sulfuric Acid A N N A Sulfur A N N A Sulfuric Acid 1-70% A A A N Sulfuric Acid 1-70% A A A N L Sulfuric Acid 70-99% A N N L A	Sodium Hydroxide	Α	Α	Α	L	
Stearic Acid A A A A Spent Sulfuric Acid A N N A Sulfur A N N A Sulfuric Acid 1-70% A A A N Sulfuric Acid 70-99% A N N L Sulphurous Acid A N N A Tall Oil A A A A Tallow Acid A A A A Tar Acid A N A A Tetra Chloroacetic Acid A N N N Tetra Hydrofurfuryl Alcohol A N N A Toluene Diamine A N N A Toluol A L L A Vinegar A N A A Vitriol Oil 65% A N A A Water, Acid A N N A		Α	Α	N	N	
Spent Sulfuric Acid A N N A Sulfur A N N A Sulfuric Acid 1-70% A A A N Sulfuric Acid 70-99% A N N L Sulphurous Acid A N N A Tall Oil A A A A Tallow Acid A A A A Tar Acid A N A A Tetra Chloroacetic Acid A N N N Tetra Hydrofurfuryl Alcohol A N N A Toluene Diamine A N N A Toluol A L L A Vinegar A N A A Vitriol Oil 65% A N A A Water, Acid A N N A	Stannic Chloride	Α	Α	Α	N	
Sulfur A N N A Sulfuric Acid 1-70% A A A N Sulfuric Acid 70-99% A N N L Sulphurous Acid A N N A Tall Oil A A A A Tallow Acid A A N A Tar Acid A N A A Tetra Chloroacetic Acid A N N N Tetra Hydrofurfuryl Alcohol A N N A Toluene Diamine A N N A Toluol A L L A Valeraldehyde A N A A Viriol Oil 65% A N A A Water, Acid A N N A	Stearic Acid	Α	Α	Α	Α	
Sulfur A N N A Sulfuric Acid 1-70% A A A N Sulfuric Acid 70-99% A N N L Sulphurous Acid A N N A Tall Oil A A A A Tallow Acid A A N A Tar Acid A N A A Tetra Chloroacetic Acid A N N N Tetra Hydrofurfuryl Alcohol A N N A Toluene Diamine A N N A Toluol A L L A Valeraldehyde A N A A Viriol Oil 65% A N A A Water, Acid A N N A	Spent Sulfuric Acid	Α	N	N	Α	
Sulfuric Acid 70-99% A N N L Sulphurous Acid A N N A Tall Oil A A A A Tallow Acid A A N A Tar Acid A N A A Tetra Chloroacetic Acid A N N N Tetra Hydrofurfuryl Alcohol A N N A Toluene Diamine A N N A Toluol A L L A Valeraldehyde A N - A Viriol Oil 65% A N A A Water, Acid A N N A		Α	N	N	Α	
Sulphurous Acid A N N A Tall Oil A A A A A Tallow Acid A A N A Tar Acid A N A A Tetra Chloroacetic Acid A N N N Tetra Hydrofurfuryl Alcohol A N N A Toluene Diamine A N N A Toluol A L L A Valeraldehyde A N - A Virinol Oil 65% A N A A Water, Acid A N N A	Sulfuric Acid 1-70%	Α	Α	Α	N	
Sulphurous Acid A N N A Tall Oil A A A A A Tallow Acid A A N A Tar Acid A N A A Tetra Chloroacetic Acid A N N N Tetra Hydrofurfuryl Alcohol A N N A Toluene Diamine A N N A Toluol A L L A Valeraldehyde A N - A Virinol Oil 65% A N A A Water, Acid A N N A	Sulfuric Acid 70-99%	A	N	N	L	
Tall Oil A A A A Tallow Acid A A N A Tar Acid A N A A Tetra Chloroacetic Acid A N N N Tetra Hydrofurfuryl Alcohol A N N A Toluene Diamine A N N A Toluol A L L A Valeraldehyde A N — A Vinegar A N A A Vitriol Oil 65% A N A A Water, Acid A N N A					Α	
Tallow Acid A A N A Tar Acid A N A A Tetra Chloroacetic Acid A N N N Tetra Hydrofurfuryl Alcohol A N N A Toluene Diamine A N N A Toluol A L L A Valeraldehyde A N - A Vinegar A N A A Vitriol Oil 65% A N A A Water, Acid A N N A	· ·	A	А	Α	Α	
Tar Acid A N A A Tetra Chloroacetic Acid A N N N Tetra Hydrofurfuryl Alcohol A N N A Toluene Diamine A N N A Toluol A L L A Valeraldehyde A N — A Vinegar A N A A Vitriol Oil 65% A N A A Water, Acid A N N A		A	А		Α	
Tetra Chloroacetic Acid A N N N Tetra Hydrofurfuryl Alcohol A N N A Toluene Diamine A N N A Toluol A L L A Valeraldehyde A N — A Vinegar A N A A Vitriol Oil 65% A N A A Water, Acid A N N A		A	N	Α	Α	
Tetra Hydrofurfuryl Alcohol A N N A Toluene Diamine A N N A Toluol A L L A Valeraldehyde A N — A Vinegar A N A A Vitriol Oil 65% A N A A Water, Acid A N N A						
Toluene Diamine A N N A Toluol A L L A Valeraldehyde A N — A Vinegar A N A A Vitriol Oil 65% A N A A Water, Acid A N N A						
Toluol A L L A Valeraldehyde A N — A Vinegar A N A A Vitriol Oil 65% A N A A Water, Acid A N N A						
Valeraldehyde A N — A Vinegar A N A A Vitriol Oil 65% A N A A Water, Acid A N N A						
Vinegar A N A A Vitriol Oil 65% A N A A Water, Acid A N N A				_		
Vitriol Oil 65% A N A A Water, Acid A N N A				Δ		
Water, Acid A N N A						
Xylenol A N N A						
A N N A	Aylonoi	A	IN	IN	^	

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.



Coating	Description	Typical Applications	System/DFT	
ChemLINE® 784 previously: ChemLINE® 784/32	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,	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 component high temperature cure polymer coating, with high cure.	& floors. 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 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 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® 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 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 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).	



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*. 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 2022-01-27

