## ChemLINE®784/32

A coating with superior chemical resistance and high temperature resistance.



#### **Description**

ChemLine® 784/32 is a high functionality, two component thermoset polymer coating. When cured, the ChemLine® 784/32 high cross-link density is unlike other coatings. ChemLine® 784/32 delivers significantly improved product performance and anti-corrosion resistance. ChemLine® 784/32 coating is formulated with a unique polymer designed and engineered with high functionality. This bridged aromatic backbone structure, when polymerized, forms up to 784 crosslinks. ChemLine® 784/32 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® 784/32 can be ambient cured or low temperature forced air cured depending on substrate and service conditions.\*

#### ChemLine® 784/32's 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 low temperature forced air cure
- ► Very low VOC 99 grams/L (0.80 lbs. per gallon)
- ▶ Virtually non-permeable, steam cleanable, & field repairable
- Resists hydroblasting
- ► Excellent UV resistance
- ► Complies with all FDA regulations
- ➤ ChemLine<sup>®</sup> is generally recognized as safe (GRAS) for food grade cargoes.
- ► High impact resistance
- ▶ Dry heat resistance to 400° F (204° C)

#### **Typical Properties**

Stock Colors	Gray, Red
► V.O.C. Level/Gal	99 grams/L (0.80 lbs./gal.)
Lead Content	Zero
Chromate Content	Zero
Pot Life	30 minutes @ 75°F (24°C)
Viscosity Reduction	Reduce with Toluene or Xylene
Solids by Volume	89.6%
Recommended Film Thi	ckness (dry) mils average
- <del></del>	Steel: 12 mils (300 microns)
	Concrete: 20 mils (500 microns)
Shelf Life	12 months
*Far product recommend	tions and tachnical application and

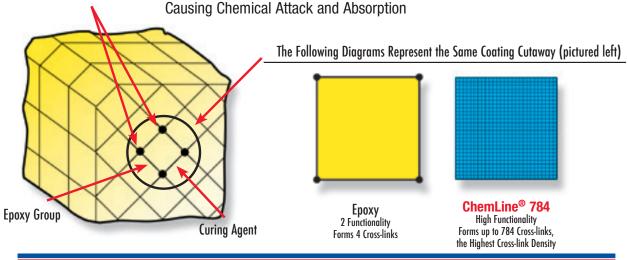
\*For product recommendations and technical, application and heat curing information contact Advanced Polymer Coatings' customer service. Contact +01 440-937-6218.



# The Technology; Epoxies, Vinylesters and ChemLine® 784/32 Form 3 Dimensional Screen-Like Structures when Cured

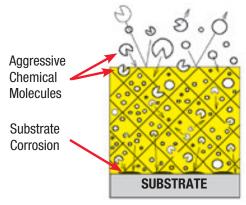
The Greater the Distance Between the Crosslinks, the Greater the Permeation

Causing Chemical Attack and Absorption



#### **Problems with Epoxies and Vinylesters**

#### Vinylester's and Epoxy's Open Screen Structure



AGGRESSIVE CHEMICAL MOLECULES PENETRATE
INTO AND THROUGH THE POLYMER GROUPS
ATTACKING BOTH THE INNER POLYMER
STRUCTURE AND THE SUBSTRATE.

#### **ChemLine 784's Closed Screen Structure**



AGGRESSIVE CHEMICAL MOLECULES CANNOT PENETRATE THE HIGH DENSITY SURFACE. INNER POLYMER STRUCTURE AND SUBSTRATE PROTECTED FROM CHEMICAL ATTACK.

## ChemLINE®784/32

- ▶ High functionality forming up to 784 crosslinks
- ► Majority of crosslinks are through Ether (C-O-C) bonds. Ether bonds are one of the strongest bonds in chemistry. Ether bonds give flexibility with chemical resistance.



This is Only A Reference Guide. This is an abbreviated listing of the more than 5,000 chemicals that have been tested. This information is intended to serve as a reference guide only. The end user is responsible for determining if ChemLine® is the appropriate coating for the specific application involved. Contact your ChemLine® Representative or the ChemLine® Customer Service Hotline +01 440-937-6218 for detailed specifications prior to any final coatings recommendation or application.

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	Chem	hen /	Me.	taji/
Acataldahuda	/ <u>6</u>	- Phenolic r	/S	/ Si
Acetaldehyde	H	<u> </u>	'\	
Acetic Acid	A	N	N	A
Acrolein Acid	A	N		A
Acrylic Acid	A	N	N	A
Acrylonitrile, (35°C)	A	N	N	Α .
Ammonium Persulfate	A	Α	Α	L
Azabenzene	A	N	N	A
Benzene	Α	Α	N	Α
Benzene Carboxylic Acid	A	Α	N	Α
Benzoyl Chloride	A	N	N	N
B-Methacrylic Acid	Α	N	N	Α
Bichromate of Soda	Α	N	Α	Α
Bromine	А	N	N	Α
Butanoic Acid	А	N	_	Α
Butyric Aldehyde	А	N	Α	Α
Calcium Hydroxide	Α	Α	Α	Α
Calcium Hypochlorite	Α	Α	Α	L
Caustic Potash	Α	N	N	Α
Carbolic Acid	Α	N	N	Α
Chlorine Water	Α	N	Α	N
Chlorosulfonic Acid	Α	N	N	N
Chlorinated Acetone	А	N	N	L
Chloracetic Acid	А	N	N	L
Chromic Acid, 20%	А	N	Α	N
Coal Tar Oil	А	N	Α	Α
Coconut Fatty Acid	Α	Α	Α	Α
Colamine	А	N	N	Α
Cresol	Α	N	_	Α
Dichloromethane	Α	N	N	Α
Detergents	Α	Α	Α	Α
Diethyl Formamide	А	N	N	Α
Diethylamine	Α	N	N	Α
Diethylene Chloride	А	N	N	L
Diethyl Ether	Α	N	N	Α
Dimethylamide Acetate	Α	N	_	Α
Disulphuric Acid	A	N	_	A
EDTA	Α	N	Α	A
Ethanolamine	A	N	N	A
Ethonic Acid Anhydride	A	N		A
Ethyl Acrylate	A	A	N	A
Fatty Acids	A	A	A	A
Fatty Acid, Palm	A	A	A	A
. 200, 7.0.0, 7.0111	L "			

Fluoraboric Acid*  Fluoraboric Acid*  A N — N  Formaldehyde A A A A A  Formamide A N — A  Formic Acid 10% A N A A  Green Liquor A N A L  Glycerol A N N A A  Grape Juice A A A A A A  Grape Juice A A A A A A  Heptanoic Acid A A — A  Heptanoic Acid A A — A  Heydronic Acid A N — A  Hydrozine A N — A  Hydrozine A N N — A  Hydrozine A N A N  Hydrochloric Acid A N A N  5-20% Hydrogen Chloride A N — N  10%-30% Hydrogen Sulfate A N A A  Isobutyric Acid A N A A  Isobutyric Acid A N A A  Isopropyl Amine A N A A  Javelle Water A N A A  Lactic Acid A A A A  Lactic Acid A A A A  Liquified Ammonia A N A A  Liquified Ammonia A N A A  Liquified Ammonia A N A A  M-Phosphoric Acid** A N A A  Latex A A A A  Liquid Pitch Oil A N A A  Methanol A N N A  Mitro Benzene A N N N N		Chemi	Phenolic	inylest	itainles,
Fluoraboric Acid*	Flaked Stearic Acid	A	N	Α	Α
Formaldehyde				_	
Formamide         A         N         —         A           Formic Acid 10%         A         N         A         A           Green Liquor         A         N         A         L           Glycerol         A         N         N         A           Grape Juice         A         A         A         A           Herring Oil         A         A         A         A           Herring Oil         A				Α	
Formic Acid 10%					
Green Liquor         A         N         A         L           Glycerol         A         N         N         A           Grape Juice         A         A         A         A           Grease Oil         A         A         A         A           Herring Oil         A         A         A         A           Herring Oil         A         A         A         A           Hexahydroanaline         A         N         —         A           HMDA         A         N         —         A           Hydrozine         A         N         A         N           Hydrozine         A         N         A         N           Hydrozine         A         N         A         N           Hydrozine         Acid         A         N         A         N           Hydrozine         Acid         A         N         A         N         A         N           10%-30% Hydrogen Chloride         A         N         A         A         A         A         A         A         A         A         A         A         A         A         A         A         <				Α	
Glycerol         A         N         N         A           Grape Juice         A         A         A         A           Grapefruit Juice         A         A         A         A           Grease Oil         A         A         A         A           Herring Oil         A         A         A         A           Herring Oil         A         A         A         A           Hexahydroanaline         A         N         —         A           HWDA         A         N         —         A           Hydrozine         A         N         A         N           Hydrozine         A         N         A         N           Hydrochloric Acid         A         N         A         N           Hydrochloric Acid         A         N         A         N           10%-30% Hydrogen Chloride         A         N         A         A           1sobutanol         A         N         A         A           Isobutyric Acid         A         N         A         A           Isobutyric Acid         A         N         A         A           Isobutyric					
Grape Juice A A A A A A A A A A A A A A A A A A A	· ·				
Grapefruit Juice         A         A         A         A         A           Grease Oil         A         A         A         A         A         A           Heptanoic Acid         A         A         A         A         A         A           Herring Oil         A         A         A         A         A         A         A           Herring Oil         A	,				
Grease Oil         A         A         A         A           Heptanoic Acid         A         A         A         A           Herring Oil         A         A         A         A           Hexahydroanaline         A         N         —         A           HMDA         A         N         —         A           Hydrozohloric Acid         A         N         A         N           Hydropfluoric Acid         A         N         A         N           Hydrogen Chloride         A         N         A         N           5-20% Hydrogen Chloride         A         N         A         N           10%-30% Hydrogen Sulfate         A         N         A         A           Isobutanol         A         N         A         A           Isobutanol         A         N         A         A           Isobutyric Acid         A         N         A         A	<u> </u>				
Heptanoic Acid         A	<u> </u>				
Herring Oil A A A A A A A A A A A A A A A A A A A				_	
Hexahydroanaline  A  N  Hormania  Hexahydroanaline  A  N  Hydrazine  A  N  Hydrobromic Acid  A  N  Hydrochloric Acid  A  N  A  N  10% Hydrofluoric Acid*  A  N  5-20% Hydrogen Chloride  A  N  Isobutanol  A  Isobutanol  A  N  A  Isobutyric Acid  A  N  A  Isopropyl Amine  A  Javelle Water  A  Lactic Acid  A  Lactoritrile  A  Lactoritrile  A  Liquified Ammonia  Liquid Pitch Oil  M  M-Phosphoric Acid**  A  M  Methanamide  A  M  Methanol  A  M  Methanol  A  M  Methylene Chloride  A  N  A  A  A  A  A  N  N  N  N  N  N	· ·			Δ	
HMDA         A         N         —         A           Hydrazine         A         N         N         A           Hydrobromic Acid         A         N         A         N           Hydrochloric Acid         A         N         A         N           10% Hydroglucic Acid         A         N         A         N           5-20% Hydrogen Chloride         A         N         —         N           10%-30% Hydrogen Sulfate         A         N         A         A           Isobutanol         A         N         A         A           Isobutanol </td <td></td> <td></td> <td></td> <td>_</td> <td></td>				_	
Hydrazine  Hydroshromic Acid  A  N  A  N  Hydrochloric Acid  A  N  A  N  10% Hydrofluoric Acid*  A  N  5-20% Hydrogen Chloride  A  Isobutanol  A  Isobutyric Acid  A  N  A  Isobutyric Acid  A  N  A  Isopropyl Amine  A  Javelle Water  A  Lactic Acid  A  Lactonitrile  A  Latex  A  Liquified Ammonia  A  Liquid Pitch Oil  A  MCA  Methanol  MEK  A  Methanol  MEK  A  N  N  N  N  N  N  N  N  N  N  N  N					
Hydrobromic Acid         A         N         A         N           Hydrochloric Acid         A         N         A         N           10% Hydrofluoric Acid*         A         N         A         N           5-20% Hydrogen Chloride         A         N         A         A           10%-30% Hydrogen Sulfate         A         N         A         A           Isobutanol         A         N         A         A           Isobutyric Acid         A         N         A         A           Isopropyl Amine         A         N         A         A           Javelle Water         A         N         A         A           Juices, Fruit         A         A         A         A           Lactic Acid         A         A         A         A           Latex         A         A         A         A           Latex         A         A         A         A           Liquified Ammonia         A         N         A         A           Liquid Pitch Oil         A         N         A         A           Methacrylonitrile, (35°C)         A         N         A         A				N	
Hydrochloric Acid         A         N         A         N           10% Hydrofluoric Acid*         A         N         A         N           5-20% Hydrogen Chloride         A         N         —         N           10%-30% Hydrogen Sulfate         A         N         A         A           Isobutanol         A         N         A         A           Isobutyric Acid         A         N         —         A           Isopropyl Amine         A         N         A         A           Javelle Water         A         N         A         A           Juices, Fruit         A         A         A         A           Lactic Acid         A         A         A         A           Lactonitrile         A         N         —         A           Latex         A         A         A         A           Latex         A         A         A         A           Liquified Ammonia         A         N         A         A           Liquid Pitch Oil         A         N         A         A           Methacrylonitrile, (35°C)         A         N         N         A					
10% Hydrofluoric Acid*         A         N         A         N           5-20% Hydrogen Chloride         A         N         —         N           10%-30% Hydrogen Sulfate         A         N         A         A           Isobutanol         A         N         A         A           Isobutyric Acid         A         N         —         A           Isopropyl Amine         A         N         A         A           Javelle Water         A         N         A         A           Juices, Fruit         A         A         A         A           Lactic Acid         A         A         A         A           Lactonitrile         A         N         —         A           Latex         A         A         A         A           Latex         A         A         A         A           Liquified Ammonia         A         N         A         A           M-Phosphoric Acid***         A         N         A         A           MCA         A         N         A         A           Methacrylonitrile, (35°C)         A         N         N         A	,				
5-20% Hydrogen Chloride         A         N         —         N           10%-30% Hydrogen Sulfate         A         N         A         A           Isobutanol         A         N         A         A           Isobutyric Acid         A         N         —         A           Isopropyl Amine         A         N         A         A           Javelle Water         A         A         A         A         A           Javelle Water         A<				- ' '	
10%-30% Hydrogen Sulfate A N A A A Isobutanol A N A A A Isobutyric Acid A N — A Isopropyl Amine A N A A A A A A A A A A A A A A A A A	,				
Isobutanol	, ,			٨	
Isobutyric Acid	, ,				
Isopropyl Amine					
Javelle Water         A         N         A         N           Juices, Fruit         A         A         A         A           Lactic Acid         A         A         A         A           Lactonitrile         A         N         —         A           Latex         A         A         A         A           Liquified Ammonia         A         N         A         A           Liquid Pitch Oil         A         N         A         A           M-Phosphoric Acid**         A         N         A         A           Meleic Anhydride         A         N         A         A           MCA         A         N         A         A           MCA         A         N         A         A           Methacrylonitrile, (35°C)         A         N         N         A           Methanolide         A         N         N         A           MEK         A         L         N         A           Methylene Chloride         A         N         N         N           Methylene Chloride         A         N         N         N           Monochloro B				Δ	
Juices, Fruit         A         A         A         A           Lactic Acid         A         A         A         A           Lactonitrile         A         N         —         A           Latex         A         A         A         A           Liquified Ammonia         A         N         N         A           Liquid Pitch Oil         A         N         A         A           M-Phosphoric Acid**         A         N         A         A           Meleic Anhydride         A         N         A         A           MCA         A         N         A         A           MCA         A         N         A         A           Methacrylonitrile, (35°C)         A         N         N         A           Methanamide         A         N         N         A           Methanol         A         N         N         A           MEK         A         L         N         A           Methylene Chloride         A         N         N         N           Monochloro Benzene         A         N         A         A           Nitric Acid 1-20%	,				
Lactic Acid A A A A A A A A Lactonitrile A N — A A A A A A A A A A A A A A A A A					
Lactonitrile A N — A  Latex A A A A  Liquified Ammonia A N N A  Liquified Pitch Oil A N A A  M-Phosphoric Acid** A N A L  Maleic Anhydride A N A A  MCA A N — A  Methacrylonitrile, (35°C) A N N A  Methanamide A N — A  Methanol A N N A  MEK A L N A  Methylene Chloride A N N N  Monochloro Benzene A N N N  Naphtalene A N A A  Nitric Acid 1-20% A N A  Nitro Benzene A N A	-				
Latex         A         A         A         A           Liquified Ammonia         A         N         N         A           Liquid Pitch Oil         A         N         A         A           M-Phosphoric Acid**         A         N         A         L           Maleic Anhydride         A         N         A         A           MCA         A         N         —         A           Methacrylonitrile, (35°C)         A         N         N         A           Methanamide         A         N         N         A           MEK         A         L         N         A           Methylene Chloride         A         N         N         N           Monochloro Benzene         A         N         N         N           Naphtalene         A         N         A         A           Nitric Acid 1-20%         A         N         A         A					
Liquified Ammonia         A         N         N         A           Liquified Ammonia         A         N         A         A           M-Phosphoric Acid**         A         N         A         L           Maleic Anhydride         A         N         A         A           MCA         A         N         —         A           Methacrylonitrile, (35°C)         A         N         N         A           Methanamide         A         N         N         A           Methanol         A         N         N         A           MEK         A         L         N         A           Methylene Chloride         A         N         N         N           Monochloro Benzene         A         N         N         A           Nitric Acid 1-20%         A         N         A         A           Nitro Benzene         A         N         A         N         A				Δ	
Liquid Pitch Oil         A         N         A         A           M-Phosphoric Acid**         A         N         A         L           Maleic Anhydride         A         N         A         A           MCA         A         N         —         A           Methacrylonitrile, (35°C)         A         N         N         A           Methanamide         A         N         N         A           Methanol         A         N         N         A           MEK         A         L         N         A           Methylene Chloride         A         N         N         N           Monochloro Benzene         A         N         N         A           Nitric Acid 1-20%         A         N         A         A           Nitro Benzene         A         N         A         N         A					
M-Phosphoric Acid**         A         N         A         L           Maleic Anhydride         A         N         A         A           MCA         A         N         —         A           Methacrylonitrile, (35°C)         A         N         N         A           Methanamide         A         N         —         A           Methanol         A         N         N         A           MEK         A         L         N         A           Methylene Chloride         A         N         N         N           Monochloro Benzene         A         N         N         A           Nitric Acid 1-20%         A         N         A         A           Nitro Benzene         A         N         A         N         A	<u> </u>				
Maleic Anhydride         A         N         A         A           MCA         A         N         —         A           Methacrylonitrile, (35°C)         A         N         N         A           Methanamide         A         N         —         A           Methanol         A         N         N         A           MEK         A         L         N         A           Methylene Chloride         A         N         N         N           Monochloro Benzene         A         N         N         A           Nitric Acid 1-20%         A         N         A         A           Nitro Benzene         A         N         A         N         A	· ·				
MCA         A         N         —         A           Methacrylonitrile, (35°C)         A         N         N         A           Methanamide         A         N         —         A           Methanol         A         N         N         A           MEK         A         L         N         A           Methylene Chloride         A         N         N         N           Monochloro Benzene         A         N         N         N           Naphtalene         A         N         A         A           Nitric Acid 1-20%         A         N         A         A           Nitro Benzene         A         N         A         N         A	· '				
Methacrylonitrile, (35°C) A N N A  Methanamide A N — A  Methanol A N N A  MEK A L N A  Methylene Chloride A N N N  Monochloro Benzene A N N N  Naphtalene A N A A  Nitric Acid 1-20% A N A  Nitro Benzene A N A					
Methanamide A N — A  Methanol A N N A  MEK A L N A  Methylene Chloride A N N N  Monochloro Benzene A N N N  Naphtalene A N A A  Nitric Acid 1-20% A N A A  Nitro Benzene A N A				N	
Methanol         A         N         N         A           MEK         A         L         N         A           Methylene Chloride         A         N         N         N           Monochloro Benzene         A         N         N         N           Naphtalene         A         N         A         A           Nitric Acid 1-20%         A         N         A         A           Nitro Benzene         A         A         N         A					
MEK         A         L         N         A           Methylene Chloride         A         N         N         N           Monochloro Benzene         A         N         N         N           Naphtalene         A         N         A         A           Nitric Acid 1-20%         A         N         A         A           Nitro Benzene         A         A         N         A				N	
Methylene Chloride A N N N  Monochloro Benzene A N N N  Naphtalene A N A A  Nitric Acid 1-20% A N A A  Nitro Benzene A N A					
Monochloro Benzene         A         N         N         N           Naphtalene         A         N         A         A           Nitric Acid 1-20%         A         N         A         A           Nitro Benzene         A         A         N         A					
Naphtalene         A         N         A         A           Nitric Acid 1-20%         A         N         A         A           Nitro Benzene         A         A         N         A					
Nitric Acid 1-20% A N A A  Nitro Benzene A A N A					
Nitro Benzene A A N A	<u> </u>				
	Nitrogen Fertilizers	A	A	_	A

	Chem	Pheno	Vinyle	Stain
Norval Amine	Α	N	N	Α
Octanoic Acid	Α	Α	_	Α
Orthonitro Benzene	Α	N	N	N
Oleum	Α	N	N	Α
Olive Oil Fatty Acid	Α	Α	Α	Α
Palm Oil Fatty Acid	Α	Α	Α	Α
Perchloroethylene	Α	N	N	Α
Perchloric Acid	Α	N	N	N
Phenol	Α	N	N	Α
Phosphoric Acid	Α	N	Α	N
Phthalic Anhydride	Α	N	Α	Α
Piperzine	Α	N	_	Α
Polyethylene Polyamines	Α	N	_	Α
Potassium Hydroxide	Α	Α	L	L
Potassium Permanganate	Α	Α	Α	L
Propionic Acid	Α	N	N	Α
Pyridine	Α	N	N	Α
Rubber Extender Oils	Α	Α	Α	Α
Rum	Α	Α	Α	Α
Sodium Carbonate	Α	N	Α	N
Sodium Dichromate	Α	N	Α	Α
Sodium Hydroxide	Α	Α	Α	L
Sodium Sulfide	Α	Α	N	N
Stannic Chloride	Α	Α	Α	N
Stearic Acid	Α	Α	Α	Α
Spent Sulfuric Acid	Α	N	N	Α
Sulfur	Α	N	N	Α
Sulfuric Acid 1-70%	Α	Α	Α	N
Sulfuric Acid 70-99%	Α	N	N	L
Sulphurous Acid	Α	N	N	Α
Tall Oil	Α	Α	Α	Α
Tallow Acid	Α	Α	N	Α
Tar Acid	Α	N	Α	Α
Tetra Chloroacetic Acid	Α	N	N	N
Tetra Hydrofurfuryl Alcohol	Α	N	N	Α
Toluene Diamine	Α	N	N	Α
Toluol	Α	L	L	Α
Valeraldehyde	Α	N	_	Α
Vinegar	Α	N	Α	Α
Vitriol Oil 65%	Α	N	Α	Α
Water, Acid	Α	N	N	Α
Xylenol	A	N	N	A

Ferric Chloride

 $A = Good \ at \ ambient \ temperatures \ L = Limited \ Service$ 

## ChemLINE®784/32

#### **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® 784/32 represents a quantum leap in chemical resistant polymer coatings.

### Add to Your Profits — Specify ChemLine® 784/32

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