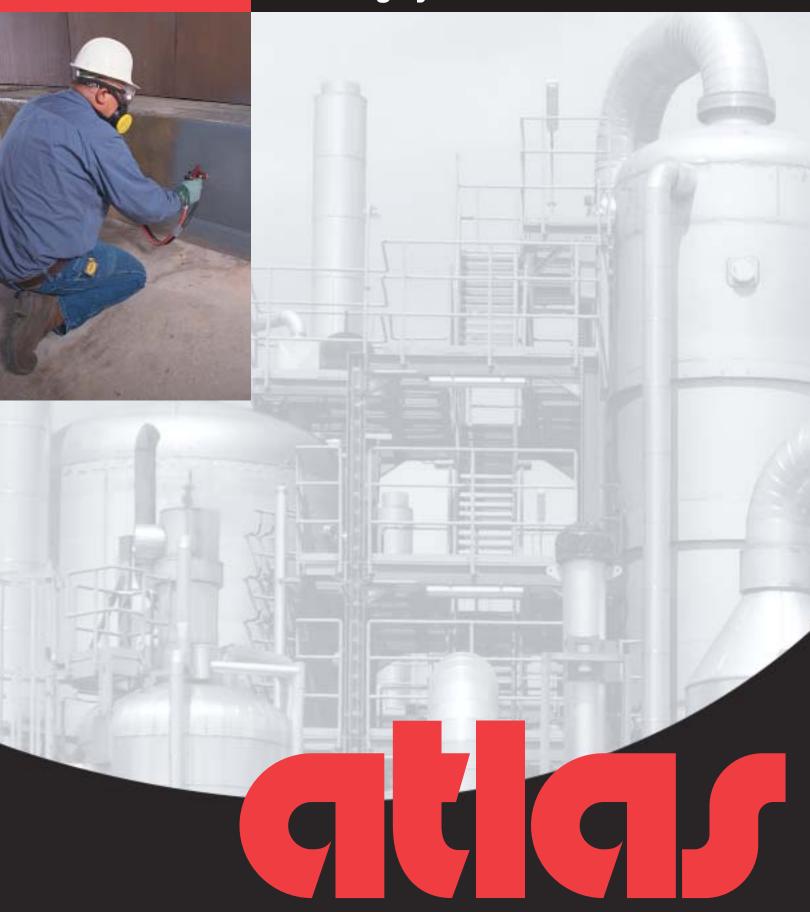
Atlas Chempruf™ Coating and Lining Systems



Protecting INDUSTRY from CORROSION



CHEMPRUF COATING AND LINING SYSTEMS — **DESIGNED TO LAST!**

Atlas Chempruf Coatings and Linings are designed to protect metal and concrete from corrosive attack. These systems use the latest resin technology to shield substrates from a broad range of chemicals. Chempruf systems can be used in immersion service to 275° F (135° C) and vapor or dry heat service to 350° F (177° C). Several of the systems are compliant with current FDA regulations. Chempruf Coatings and Linings are available in three different series, each configured to provide unsurpassed performance.

CHEMPRUF 100 SERIES

The Chempruf 100 series was developed to combine chemical resistance with ease of application. Available in a variety of base resins, the 100 series coatings are reinforced with flake fiberglass. They can be easily applied to steel or concrete by brush, roller or spray. Chempruf 100 series coatings are typically applied to a dried film thickness of 20 to 60 mils.

Chempruf 120 — Bisphenol A Epoxy

Chempruf 121 – Novolac Epoxy

Chempruf 130 – Chlorendic Polyester

Chempruf 140 – Vinyl Ester

Chempruf 141 – Epoxy Novolac Vinyl Ester

Chempruf 142 – Epoxy Vinyl Ester (FDA compliant)

Refer to Chemical Resistance Chart 4-100.

Typical Applications

Containment Dikes

Tank Exteriors

Walls

Clarifiers

Ceilings

Structural Steel

Ductwork

Floors



Chempruf 140 protects containment pit in chemical plant.



Chempruf 141 protects containment dike.

CHEMPRUF 1000 SERIES

The Chempruf 1000 series linings are intended for use in applications where frequent or continual chemical immersion is likely. The reinforcing matrix of the 1000 series linings uses two layers of interlocking fiberglass flakes to achieve an impermeable barrier. The Chempruf 1000 series linings are typically trowel-applied to a finished thickness of 80 to 100 mils.

Chempruf 1300 - Chlorendic Polyester

Chempruf 1400 - Vinyl Ester

Chempruf 1410 - Epoxy Novolac Vinyl Ester

Chempruf 1420 - Epoxy Vinyl Ester (FDA compliant)

Refer to Chemical Resistance Chart 4 -1000.

Typical Applications

- Trenches
- Scrubbers
- Sumps
- Pump Pads
- Tank Interiors
- Absorbers



Chempruf lining in trenches at fastener manufacturing plant.

CHEMPRUF 2000/2001 SERIES

The Chempruf 2000 series linings can handle the most demanding environments. The 2000 series linings are installed where chemical exposure is severe and physical requirements are high. These linings can be applied in two configurations: a multiple mat composite (2000 series) that provides the ultimate in strength; or a fabric-reinforced composite (2001 series) that is less labor intensive to install. These linings are typically trowel-applied to finished thicknesses of 1/8" (125 mils).

Chempruf 2101 - Furan

Chempruf 2201 — Bisphenol A Epoxy

Chempruf 2211 - Novolac Epoxy

Chempruf 2300 & 2301 — Chlorendic Polyester

Chempruf 2400 & 2401 - Vinyl Ester

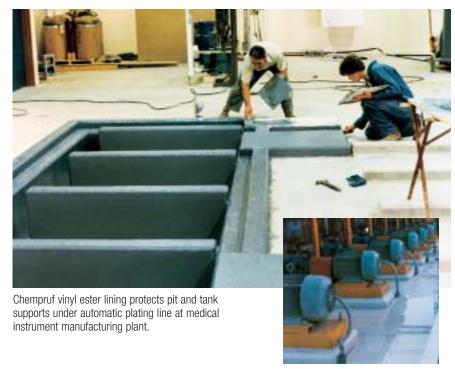
Chempruf 2410 & 2411 - Epoxy Novolac Vinyl Ester

Chempruf 2420 & 2421 — Epoxy Vinyl Ester (FDA compliant)

Refer to Chemical Resistance Chart 4-2000.

Typical Applications

- Process Vessels
- Sumps
- Containment Areas
- Trenches
- Floors
- Tanks

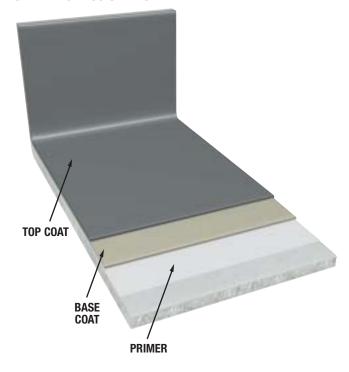


Chempruf 2300 lining system protects chemical storage containment area.

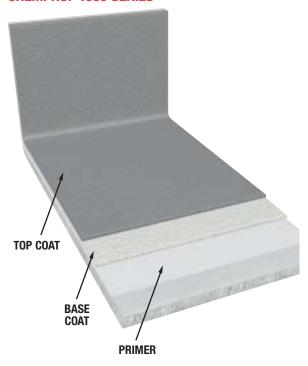


CHEMPRUF SERIES COMPOSITION DETAILS

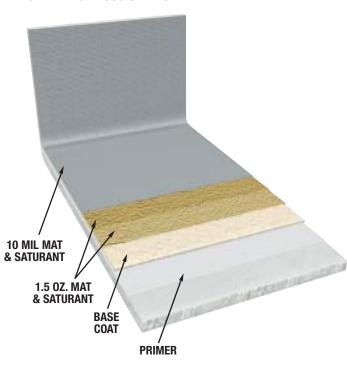
CHEMPRUF 100 SERIES



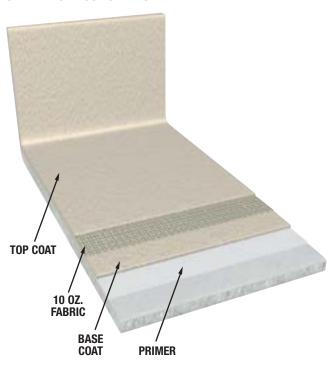
CHEMPRUF 1000 SERIES



CHEMPRUF 2000 SERIES



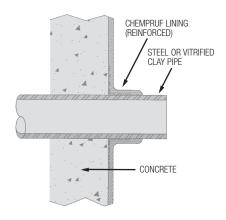
CHEMPRUF 2001 SERIES



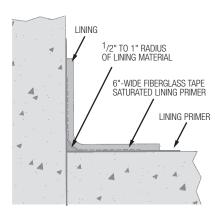
TYPICAL CHEMPRUF LINING CONSTRUCTION DETAILS

It is not possible to anticipate all the various conditions encountered on site. These typical installation details, therefore, are presented only as a guide to good installation practices. Atlas field and home office representatives are available to assist you on your specific project.

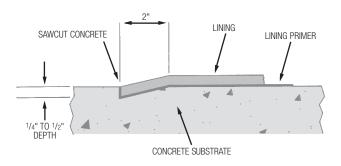
DETAIL FOR IN-PLACE OUTLETS



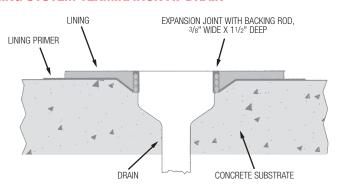
TRANSITION DETAIL



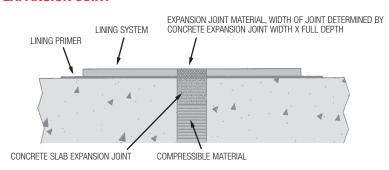
LINING SYSTEM TERMINATION



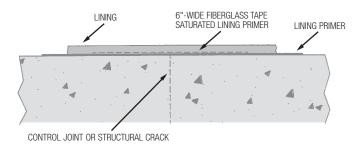
LINING SYSTEM TERMINATION AT DRAIN



EXPANSION JOINT



HORIZONTAL & VERTICAL CONTROL JOINT OR STRUCTURAL CRACK





PHYSICAL PROPERTIES AND USES

The chart below represents typical corrosive environments and other factors suitable for Chempruf linings. More specific recommendations can be obtained by referring to our comprehensive Chempruf data sheets and chemical resistance charts or by contacting your Atlas sales representative

2000/2001 SERIES	Formulation Type	Immersion	Splash/Spill/Secondary Containment	Concentrated Inorganic	Inorganic Acids - Diluted	Organic Acids	Alkalis	Aromatic Solvents	Chlorinated Solvents	Aliphatic Solvents	Petroleum Oils/Fuels	Abrasive Slurry/Immersion	Heavy Mechanical/Truck Traffic	Cart Traffic/Heavy Foot Traffic	Foot Traffic	Severe	Moderate	Wild	Primary Containment	Secondary Containment	Process Floors	Trenches/Pits	Ducts	Exposed/Structural Steel
CHEMPRUF 2101	F	275 [*]		R ⁺	R	R	R	R	NR	R	R	R ¹	R	R	R	R	R	R	R	R	R	R	R	NR
CHEMPRUF 2201	E	160	180	R	R	NR	R	NR	NR	NR	R	R1	R	R	R	R	R	R	R	R	R	R	R	NR
CHEMPRUF 2211	NE	160	180	R	R	NR	R	R	R	R	R	R1	R	R	R	R	R	R	R	R	R	R	R	NR
CHEMPRUF 2300	PE	180	212	R	R	R	NR	R	R	R	R	R ¹	R	R	R	R	R	R	R	R	R	R	R	NR
CHEMPRUF 2301	PE	180	212	R	R	R	NR	R	R	R	R	R ¹	R	R	R	R	R	R	R	R	R	R	R	NR
CHEMPRUF 2400	VE	160	180	R	R	R	R	R	R	R	R	R ¹	R	R	R	R	R	R	R	R	R	R	R	NR
CHEMPRUF 2401	VE	160	180	R	R	R	R	R	R	R	R	R ¹	R	R	R	R	R	R	R	R	R	R	R	NR
CHEMPRUF 2410	NVE	180	212	R	R	R	R	R	R	R	R	R ¹	R	R	R	R	R	R	R	R	R	R	R	NR
CHEMPRUF 2411	NVE	180	212	R	R	R	R	R	R	R	R	R ¹	R	R	R	R	R	R	R	R	R	R	R	NR
CHEMPRUF 2420	EVE	180	212	R	R	R	R	R	R	R	R	R ¹	R	R	R	R	R	R	R	R	R	R	R	NR
CHEMPRUF 2421	EVE	180	212	R	R	R	R	R	R	R	R	R ¹	R	R	R	R	R	R	R	R	R	R	R	NR
1000 SERIES																								
CHEMPRUF 1300	PE	180	212	R	R	R	NR	R	R	R	R	NR	NR	R	R	NR	R	R	R	R	R	R	R	NR
CHEMPRUF 1400	VE	160	180	R	R	R	R	R	R	R	R	NR	NR	R	R	NR	R	R	R	R	R	R	R	NR
CHEMPRUF 1410	NVE	180	212	R	R	R	R	R	R	R	R	NR	NR	R	R	NR	R	R	R	R	R	R	R	NR
CHEMPRUF 1420	EVE	180	212	R	R	R	R	R	R	R	R	NR	NR	R	R	NR	R	R	R	R	R	R	R	NR
100 SERIES																								
CHEMPRUF 120	Е	120	150	R	R	NR	R	NR	NR	NR	R	NR	NR	R	R	NR	NR	R	R	R	R	R	R	R
CHEMPRUF 121	NE	120	150	R	R	NR	R	R	R	R	R	NR	NR	R	R	NR	NR	R	R	R	R	R	R	R
CHEMPRUF 130	PE	130	160	R	R	R	NR	R	R	R	R	NR	NR	R	R	NR	NR	R	R	R	R	R	R	R
CHEMPRUF 140	VE	130	150	R	R	R	R	R	R	R	R	NR	NR	R	R	NR	NR	R	R	R	R	R	R	R
CHEMPRUF 141	NVE	130	160	R	R	R	R	R	R	R	R	NR	NR	R	R	NR	NR	R	R	R	R	R	R	R
CHEMPRUF 142	EVE	130	160	R	R	R	R	R	R	R	R	NR	NR	R	R	NR	NR	R	R	R	R	R	R	R

F - Furan

E - Epoxy

PE - Polyester VE - Vinyl Ester NE - Novolac Epoxy

NVE - Novolac Vinyl Ester EVE - Epoxy Vinyl Ester

R - Recommended NR - Not Recommended * - with brick

R+ - not when oxidizing

¹ - use finishers

PLANT-WIDE PROTECTION AGAINST CORROSION

Since 1892, Atlas has played a pioneering role in the development and manufacture of chemical-resistant construction materials. Improvement is an ongoing process at Atlas. Our research personnel continually search for new ways to enhance our product line. By employing a wide variety of resin technologies, we are able to offer protection for just about any application. Atlas also maintains an extensive network of salespeople and technicians trained to consult on your projects.

If you have corrosion problems, you don't have to look any further than Atlas for a solution.



From its headquarters in Mertztown, Pa., Atlas supplies industry with a full range of corrosion-resistant materials and services such as mortars, grouts, polymer flooring materials, membranes and linings, process and storage tanks, plastic fabrications, coatings and specialty brick.



Cell test for permeability and chemical resistance is performed in Atlas laboratory.

Atlas sales engineer discusses proper Chempruf lining for protection of containment pit.



For qualified and objective recommendations to solve your corrosion problems ...

ask Atlas,



we have a world of answers.



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