



Rhino Industrial[™]
Solutions[™]



[World Class Protection[™]]

Water and Wastewater Solutions

 **Rhino Linings**[®]



SOLUTIONS

Water & Wastewater Treatment

If it can corrode, fail, or leak, it will. That's why water and wastewater treatment facilities globally have chosen Rhino Linings® polyurea-polyurethane coatings as their protection solution!

Rhino Linings has over 15 years of industrial technological experience delivering proven monolithic corrosion and spill prevention solutions. All formulations are thick elastomeric linings designed for long-life under extreme environmental conditions. Industrial strength Rhino Linings permanently shield against corrosion, chemicals, bacteria, hydrogen sulfide, abrasion and skidding.*

Monolithic Spray-on Linings

- Family of Products
- Polyurethane / Polyurea / Hybrid
- Monolithic Seamless Lining
- Bonds to Virtually Any Surface
- Air, Water, Chemical - Tight Seal
- Protects Against Corrosion, Slipping, Abrasion, Spills, UV & Color Fading

All Rhino Linings solutions are 100% solids, VOC free and can be sprayed or cast onto virtually any substrate including steel, concrete, metals, fiberglass, wood and geotextiles. All formulations are tack free within seconds and fully cured in 24 hours under most conditions. Our products provide fast turnaround and dramatically reduce structure and equipment downtime and maintenance costs.

Global Applications -Examples

- **Potable Water Tank:** Missouri, USA
- **Wastewater Treatment Facilities:** Mauritius Islands; Brisbane, Australia
- **Wastewater Sludge Bin:** Wisconsin, USA
- **Digester Tanks:** Arizona and Virginia, USA
- **Primary & Secondary Chemical Containment:** USA, Europe, Australia, Latin America and Canada

Contact Rhino™ for case studies and white papers

Rhino—Seamless Protection



YOUR SOLUTION

Economical Long-term Solution



Secondary Containment

U.S. Certifications

- ANSI/NSF Standards 61 and 50
- SSPC/EPA Title 40, CFR Part 112 & 264
- CAFO Title 40, Part 412
- CFR 21 - FDA/Incidental Food Contact

Florida State Tank Containment Compliance

- FAC 62-762.501
- NACE 6G197/SSPC-TU2**
- ACI 350.2R-04

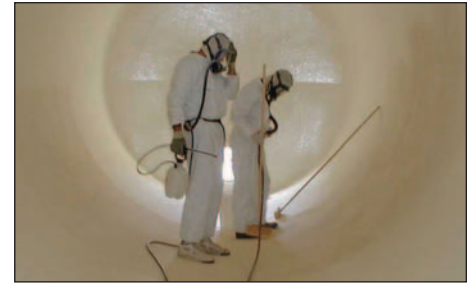
*See technical specifications or ask your Rhino Linings representative for details. **Final certification pending.



Pipes Exterior (HardLine)



Containment Tank



Frac Tank (Hi-Chem)

FLAGSHIP Formulations

Rhino Extreme™ 90

100% polyurea chemistry. Specifically formulated for extreme, outdoor conditions and colder substrate applications.

Rhino Extreme Applications

- Extreme outdoor marine environments
- Demanding fast setting/curing conditions
- Highly corrosive applications
- Highly physical property requirements
- Excellent non-slip properties

Rhino™ SolarMax™

Combines toughness with excellent gloss and color stability. Provides a tenacious bond to metal, fiberglass and wood.

SolarMax Applications

- Exterior marine surfaces
- Storage tanks, fire hydrants and theme parks
- Parking zones, emergency lanes and safety curbs

Rhino™ TuffGrip™

A versatile lining with a formulation that offers excellent toughness and abrasion resistance, while retaining excellent non-skid grip properties.

TuffGrip Applications

- Floors, decks, walkways and ladders
- Boat docks, ramps and storage areas
- Lift gates, cargo trailers and vehicles

Rhino™ HardLine™

Superior chemical resistance and protection against impact, abrasion and corrosion to deliver maximum protection and toughness.

HardLine Applications

- Any surface requiring tough, hard protection
- Boat hulls, propellers and dredge equipment
- Pipes, tanks, dry-dock patches
- Floors with heavy loads

Rhino™ Hi-Chem™ and Rhino™ Hi-Chem™ 65D-PW

Excellent stability for immersion applications and chemical resistance. Superior rigid formulation with highest amount of molecular cross-linking.

Hi-Chem Applications

- Highly corrosive marine environments
- Any application requiring protection from industrial chemicals such as diesel, crude, oil, gas, chemicals, salts or lye



Rhino Hybrid™ 55D

Polyurea/Polyurethane System. Cost-effective solution for high humidity, impact, corrosion and abrasion protection.

Rhino Hybrid Applications

- Fast setting, marine environments
- High chemical and corrosion areas
- Floors, storage areas, tanks and containment

Properties	Extreme 90	TuffGrip	Hi-Chem 70D	Hi-Chem PW	SolarMax	HardLine	Hybrid 55D
Hardness (Shore) - ASTM D2240	90A +/- 5	88A +/- 5	70D +/- 5	65D +/- 5	90A +/- 5	55D +/- 5	55D +/- 5
Tensile Strength (psi) - ASTM D-412	2600 – 2800	1300 – 1500	3500 – 3700	2000 – 2200	2000 – 2200	2100 – 2200	2200 – 2400
Elongation (%) - ASTM D-412	400 – 450	250 – 300	25 – 30	60 – 80	100 – 150	50 – 80	90 – 100
Tear Resistance - ASTM D-624	300 – 330	200 – 250	180 – 190	190 – 210	250 – 300	200 – 250	300 – 330
Corrosion Resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Slipping / Abrasion Protection	Excellent	Excellent	Good	Good	Good	Good	Good
Extreme Condition Applications	Excellent	Good	Good	Good	Good	Good	Excellent
UV / Color Stability Applications	Good	Good	Good	Good	Excellent	Good	Good
NSF 61 & 50 Certified (Potable Water)	No	No	No	Yes	No	No	No

Certifications: ANSI/NSF, SSPC/EPA, CAFO, CFR, FDA, FAC, NACE, ACI

THE

Rhino Solution

Rhino Linings USA, Inc., established in 1988 and headquartered in San Diego, California, is an innovator in sprayed-on elastomeric polyurethane and polyurea solutions. In 2006, Rhino Linings® with High Impact Technologies (HIT) won the prestigious Alliance for the Polyurethane Industry (API) product innovation of the year award for Battle Jacket™, a self sealing polyurethane for fuel tankers in battle arenas.

Recognized as the global leader in spray-on truck bed liners, the Rhino Linings product line extends into industrial applications with over 15 years of experience of weatherability and service in a wide variety of

commercial applications. Our family of tough, strong coating formulations are 100% solids, environmentally-friendly, contain no VOCs, CFCs or solvents, and can be sprayed onto virtually any surface to match your specific application needs.

Rhino Linings formulations have been specifically designed to resist harsh chemicals and constant immersion. As a protective

layer, the coatings provide an impermeable barrier against various acids and sulfides making it the ideal lining for any wastewater treatment facility.



We are proud to boast numerous satisfied industrial, commercial and military customers along with a global retail and industrial dealer network of over 1400 independent businesses in over 76 countries. For detailed information about Rhino Linings

industrial solutions, or to learn about exciting opportunities, please visit our web site at www.rhino linings.com.

**IMPERVIOUS
FEARLESS™
PROTECTION**



Rhino Industrial™

www.rhino linings.com

1-877-509-4603



Rhino Linings Corporation
Rhino Linings Canada
Rhino Linings Latin America
rli@RhinoLiningsIndustrial.com

9151 Rehco Road
San Diego, CA 92121
1-877-509-4603
www.RhinoLinings.com

Europe, Africa, Middle East
Rhino Linings Europe
Tel: + 49 6103 936474
www.RhinoLiningsEurope.com

Australia, Asia
Rhino Linings Australasia
Tel: 1 300 88 77 80
www.RhinoLinings.com.au