



Rhino Industrial™ Solutions™



[Rhino Worldwide Protection™]

Boat and Marine Coatings

 **Rhino Linings®**



SOLUTIONS

Boat and Marine Coatings

If it can corrode, leak or receive impact, it will. If there is a possibility someone will slip or cargo will shift, then the area must be secured. And, if color stability and UV protection are required to protect your investment, it's essential you choose Rhino Linings®!

Whether you're on a shipbuilding dock, at sea on a workboat or offshore structure, or just enjoying the experience in your pleasure boat, the Rhino Linings family of thick polyurethane, polyurea and hybrid products is the solution that will protect your investments from the harsh, corrosive marine environment.

Rhino Linings provides a cost-effective solution for reducing maintenance costs, minimizing out-of-water downtime and maximizing your return on investment. Each product can be sprayed or cast onto virtually any marine substrate or equipment thereby automatically increasing your investment and personnel productivity.

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

Marine Applications

- | | |
|--------------------------|--------------------------|
| • Decks | • Docks |
| • Holding Tanks | • Hulls |
| • Marinas | • Marine Cargo Handling |
| • Pleasure Craft | • Port & Harbor Handling |
| • Shipbuilding & Repairs | • Storage Boxes |
| • Trailers | • Work Boats |

Contact Rhino™ for case studies and white papers

Twin Vee - Catamaran

"We replaced our gel coating with Rhino TuffGrip™ polyurethane coating to give our customers a solution that is more flexible, doesn't crack, and prevents slipping. As a by-product, they also realized reduced maintenance costs, fewer repairs, and less out-of-the-water downtime."

--David East, President of Twin Vee Inc.

Polyurethane / Polyurea / Hybrid Solutions



Safeboats / U.S. Coast Guard



Boat Trailer



Twin Vee - Catamaran

YOUR SOLUTION

Increased Return-on-Investment



Twin Vee / U.S. Coast Guard

Seamless, Monolithic Coatings

Key ROI Benefits

- Reduces maintenance costs, repairs & equipment downtime
- High flexibility eliminates cracking
- Cushions cargo and prevents damage from shifting during transit
- Shields against abrasion, impacts and abuse from the elements
- Safeguards facilities, equipment and vehicles from wear and tear
- Provides an impermeable barrier against rust and corrosion
- Adds years to the life of any surface or equipment
- Can be sprayed or cast onto virtually any surface
- Increases personnel safety and productivity
- Won't crack, spilt, warp or peel*





Boat Docks



Marine Shipyards



Ship Decks

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™

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	SolarMax	HardLine	Hybrid 55D
Hardness (Shore) - ASTM D2240	90A +/- 5	88A +/- 5	70D +/- 5	90A +/- 5	55D +/- 5	55D +/- 5
Tensile Strength (psi) - ASTM D-412	2600 – 2800	1300 – 1500	3500 – 3700	2000 – 2200	2100 – 2200	2200 – 2400
Elongation (%) - ASTM D-412	400 – 450	250 – 300	25 – 30	100 – 150	50 – 80	90 – 100
Tear Resistance - ASTM D-624	300 – 330	200 – 250	180 – 190	250 – 300	200 – 250	300 – 330
Corrosion Resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Slipping / Abrasion Protection	Excellent	Excellent	Good	Good	Good	Good
Extreme Condition Applications	Excellent	Good	Good	Good	Good	Excellent
UV / Color Stability Applications	Good	Good	Good	Excellent	Good	Good

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 for boat and marine industry coatings.

Recognized as the global leader in sprayed-on truck bed liners, the Rhino Linings® product line extends into shipbuilding, workboats, pleasure craft, tanks, offshore structures and marinas. We have over 15 years of experience providing weatherability and corrosion protection in a wide variety of marine applications. Our family of tough, strong coating formulations are 100% solids, environmentally friendly, contain no VOCs, CFCs or solvents, and can be monolithically sprayed onto virtually any surface to match your specific application needs.

Rhino Linings formulations are incredibly versatile and are ideal for hulls, docks, trailers, marinas, offshore structures, marine cargo handling, personal watercraft and more. Our unique flexible and textured formulations reduce surface slippage, shield

against abrasion and impact, and will not crack, split, warp or peel from weather or other environmental factors.*



The formulations have been specifically designed to resist the harsh environments found in the marine industry. As a protective layer, the coatings provide a monolithic, impermeable barrier against rust and corrosion.

Rhino Linings is proud to claim hundreds of satisfied marine, 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™**

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