

DESCRIPTION:

RhinoPro™ TuffCoat™ is a two-component, 100% solids (no VOCs, no solvents), rapid curing, elastomeric polyurea hybrid lining. The protective lining system is packaged in a dual 750 ml cartridge for use with the lightweight, portable RhinoPro™ Cartridge Gun. The disposable, quick-load cartridges are great for truck bedliners, small jobs, hard to reach places and repairs.

FEATURES & BENEFITS:

- High tensile strength and tear strength properties.
- Very good abrasion and impact resistance.
- Good chemical resistance.
- Excellent corrosion resistance.
- Bonds to virtually all substrates, including metals, woods, concrete and fiberglass, with proper surface preparation.
- Stable from -40°F (-40°C) to 175°F (80°C).

APPLICATIONS:

- Spray-on application creates a monolithic, seamless lining which conforms to any shape and size.
- Casting of small parts, void filling.
- Elastomeric properties allow for application to surfaces subject to: vibration, expansion, contraction, movement, flexing, abrasion and impact.

TYPICAL PHYSICAL PROPERTIES:

Hardness (Shore D)	55±5	ASTM D-2240
Tensile Strength (psi)*	2000 – 2100	ASTM D-412
Elongation (%)*	100 – 125	ASTM D-412
Tear Resistance (pli)*; Die C	200 – 250	ASTM D-624
Specific Gravity (grams/cc)	1.06 – 1.08	ASTM D-792
Water Absorption (%)	≤1.5	ASTM D-570

*Properties were checked of RhinoPro™ TuffCoat™ lining, 1/8" (125 mils), (3.18 mm) thick stock.

PROCESSING:

Reactivity:	Gel Time = 15 sec ±5 at 80°F. Tack Free Time = 1 – 5 minutes, based on ambient temperature.
Cure Time:	RhinoPro™ TuffCoat™ will set in 5 – 10 minutes at 70°F depending on substrate temperature and thickness. Full cure should be complete within 24 hours at 70°F.
Application:	Please refer to the RhinoPro™ Cartridge Gun manual for complete instructions on using these cartridges.
Coverage:	Dual 750 ml cartridges cover 8 sq ft at 1/16" (62 mils or 1.5 mm) thickness.
Surface Prep:	Before applying RhinoPro™ TuffCoat™, the surface should be prepared properly following recommended RhinoPro™ procedures. The substrate should be clean, dry and free of oil, dirt or other contaminant's. It is ideal to roughen the surface to create a profile to bond to. Depending on the application, the use of the appropriate RhinoPro™ primer may be required for best results.

CHEMICAL RESISTANCE:

Good resistance to many commercial and industrial chemicals such as acids, alkalies, oils and cleaning chemicals. For specific applications and information, please call us to speak to a RhinoPro™ representative.

SUBSTRATES:

The RhinoPro™ TuffCoat™ can be applied to metals, wood, concrete, fiberglass, geotextiles and other RhinoPro™ products as a patch material. If using as a repair or patch material, it is best to match the hardness rating of 55D with the lining being repaired. Please consult with RhinoPro™ for further technical support.

VOLATILE ORGANIC CONTENT:

None. 100% solids. No solvents.

STORAGE & SHELF LIFE:

RhinoProTM TuffCoatTM Cartridges should be stored at 60 – 90°F in a dry condition in their original packaging. Shelf life is 6 months in unopened cartridges stored under proper conditions. If RhinoProTM TuffCoatTM cartridge has been stored longer than 1 week, shake cartridge to insure proper distribution of chemicals and pigment.

COLOR OPTIONS:

Standard color - black, graphite, industrial tan, industrial gray.

Custom colors available by special order.

SAFETY PRECAUTIONS:**Health Considerations: Consult the RhinoProTM Material Safety Data Sheets.**

The uncured components of RhinoProTM TuffCoatTM can cause irritation to the eyes, skin, mucous membranes and are harmful if swallowed. When handling, avoid contact with eyes and skin (especially open cuts). In case of contact, immediately wash off with plenty of water for at least fifteen (15) minutes. For eyes, obtain medical attention. Always wash hands before eating. Obtain immediate medical attention in case of ingestion.

RhinoProTM TuffCoatTM contains isocyanates and may cause allergic skin or respiratory reactions. Do not use if you have chronic breathing problems (asthma) or if you have ever had reactions to isocyanates. When applying RhinoProTM TuffCoatTM, avoid breathing harmful vapors. Fresh air-supplied standard painter's hood and full face respirator must be worn by all personnel entering the area where RhinoProTM TuffCoatTM is being spray applied until all vapors have been exhausted. In case of extreme exposure or adverse reaction, remove affected personnel to fresh air immediately and obtain medical help.

RhinoProTM TuffCoatTM components are combustible liquids Class IIIB. Store and transport according to regulation.

Important: Consult the RhinoProTM Material Safety Data Sheets.

Read and follow warning labels on all components. For professional use only. The information herein is believed to be reliable, but unknown risks may be present. All warranties of any kind, express or implied, including warranties of fitness for a particular purpose, are specifically disclaimed.

For Your Protection:

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Uberwurx an authorized reseller of Rhino Linings® products. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Uberwurx will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. Because of numerous factors affecting results, Uberwurx makes no warranty of any kind, express or implied, other than that the material conforms to its applicable current Standard Specifications. Uberwurx hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Uberwurx for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.



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