

Part A – Primer 161 Iso – Part # 50506  
 Part B – Primer 161 Resin – Part # 50516

**DESCRIPTION:** Primer 161 is a two-component, 100% solids (no solvents), zero VOCs, flexible, elastomeric polyurethane primer. It is used to prepare surfaces for Rhino Linings® applications. It is easily applied with a brush, roller or spray equipment, providing high resistance to hydrolysis and has excellent results in salt spray, water immersion and hot air tests.

**FEATURES & BENEFITS:**

- Sprayable through Rhino Linings 2:1 ratio low and high pressure machines
- Ability to be applied by roller, brush or HVLP spray gun
- Excellent adhesion to a variety of substrates
- Good flexibility – withstands mechanical stresses where the lining is subject to impact
- Low viscosity – easy to process
- Pigmented red for easy visual confirmation of application
- 100% solids, zero VOCs, no solvents

**CHEMICAL PROPERTIES:**

	Isocyanate	Resin	
Solids by Volume/Weight	100%	100%	
Volatile Organic Compounds	0 lbs/gals	0 lbs/gals	
Mix Ratio, Parts per Weight	10	16.7	= 26.7 grams mix total
	30	50	= 80 grams mix total
	60	100	= 160 grams mix total
Gel Time	Gel time can be shortened when spraying by adding Rhino™ HP Accelerator to the resin component		
Pot Life	30 minutes @ 70° F (21° C) for a 1 quart kit; can be extended by adding 5% acetone		
Cure Time	120 minutes @ 60° F (16° C)		
	45 – 60 minutes @ 90° F (32° C)		
Shelf Life - Unopened Containers	12 months	12 months	
Base Color	brown	red	

**APPLICATION INSTRUCTIONS:**

- Ensure that the surface to be primed is dry and clean – free of dirt, oil and other contaminants.
- Mix ratio = 1.666 parts by weight (PBW) of resin to 1 PBW of isocyanate. The quart kit is pre-weighed at the correct ratio. (i.e. 100 grams of resin to 60 grams of isocyanate)
- Only mix the amount that can be applied in 30 minutes or less.
- You can use Rhino HP Accelerator to speed up cure time. Do not reduce to less than 20 minutes for cure time.
- Rhino Linings 2:1 ratio spray equipment can be used to apply, Primer 161. The Primer 161 is available in pails which allow the machines drum pumps to be used for drawing the iso and resin.
- Apply lining over the primer between 8 – 12 hours of primer application. Between 12 – 24 hours, wipe with acetone before re-coating. If you used solvent to thin Primer 161, the primer must be completely dry.
- Primer covers 320 – 400 sq. ft. per gallon at 4 – 5 mils thick.
  - A hedpak kit is approximately 12 gallons yielding about 3,800 – 4,500 sq. ft.
  - A quart/pint kit is about 1/3 gallon yielding about 110 – 130 sq. ft.
- The method of application for concrete should be as follows. The 161 primer should be used in combination with Primer 101 which is an epoxy sealer/primer. Clean and remove all contaminants. Profile the surface to a CSP 2 – 5 depending on usage, seal and prime with Primer 101, broadcast dry sand into wet primer. If the initial coat of Primer 101 exceeds the 24 hour recoat window, then you can apply Primer 161 to the clean substrate to obtain both a chemical bond and a mechanical bond.

**SUBSTRATES:**

Metals, fiberglass, polyurethane, most plastics and dry wood

**PRIMER 161** (continued)

**SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS)**

This chemical system requires the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

**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 Rhino Linings Corporation. 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 Rhino Linings Corporation 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.

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