

**DESCRIPTION:**

ResinForce® Polyurea Primer (RF-PLY95-FC) is a fast cure two-component, VOC compliant, polyurea hybrid that was developed as a primer/basecoat for a variety of coating systems. It provides outstanding adhesion on a large number of substrates and performs well in a wide range of temperature conditions.

<b>TECHNICAL DATA @ 73°F AND 50% RH:</b>					
	<b>PART A</b>	<b>Resin</b> <b>2 US Gal.</b>	<b>PART B</b>	<b>Hardener</b> <b>1 US Gal.</b>	<b>Mix</b>
<b>Color</b>		<b>PART A</b> Upon Request		<b>PART B</b> Light Yellow	Upon Request
<b>Recommended Thickness</b>	<b>Resin Force™ Polyurea Primer (RF-PLY95-FC)</b> 8-12 mils (150-200 ft <sup>2</sup> ./gal)				
<b>Shelf Life</b>	12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.				
<b>Mix Ratio, by volume</b>	A:B = 2:1				
<b>Mix Ratio, by weight</b>	A:B = 100:63				
<b>Pot Life (454 g)</b>	15-20 minutes @ 77°F				
<b>Solids Content, by weight</b>	<b>PART A</b> 100%		<b>PART B</b> 100%		<b>Mix</b> 100%
<b>Solids Content, by volume</b>	<b>PART A</b> 100%		<b>PART B</b> 100%		<b>Mix</b> 100%
<b>Density (kg/L)</b>	<b>PART A</b> 0.95		<b>PART B</b> 1.25		<b>Mix</b> 1.09
<b>Thinner Recommended</b>	XYLENE				
<b>Drying Times</b>	<b>Recoat Window</b> 1-24 Hours Maximum	<b>Foot Traffic</b> 16-24 Hours	<b>Normal Traffic</b> 24-48 Hours	<b>Heavy Equipment Traffic</b> >5-7 Days	
<b>Bond Strength (psi), ASTM D4541</b>	>500 (Substrate ruptures)				
<b>Water Absorption (%), ASTM D570</b>	NA				
<b>Hardness (Shore D), ASTM D2240</b>	45-50				
<b>Abrasive Resistance (mg loss) (CS17 / 1000 Cycles / 1000g), ASTM D1737</b>	NA				
<b>Flexibility, 1/8" Mandrel, ASTM D1737</b>	Pass				
<b>Viscosity @ 77°F</b>	<b>PART A</b> 700-900		<b>PART B</b> 150 - 250		<b>Mix</b> 500 - 00
<b>Tear Strength (PLI), ASTM 2240</b>	NA				
<b>Tensile Strength (psi), ASTM D638</b>	NA				
<b>Elongation %, ASTM D638</b>	NA				
<p><small>*NOTE: Indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage.*</small></p> <p><small>**NOTE: Indicated Viscosity is for clear product only, Any addition of colorant may affect the viscosity.**</small></p>					

**TECHNICAL PROPERTIES:**

**RF-PLY95-FC Properties: Based on 73°F @ 50% RH\***

Working time.....	11-14 Mins	Pot Life (Gel Time).....	11-14 Mins
Recoat Time.....	1-3 Hours	Foot Traffic.....	16-24 Hours
Light Traffic.....	1-2 Days	Full Cure.....	5-7 Days

\*Note: Higher temperatures and humidity will shorten pot life and cure times. Colder temperatures and/or lower humidity will extend pot life and cure times.

**SURFACE PREPARATION:**

The concrete surface must be deemed mechanically and structurally sound, thoroughly clean of debris, oils, fats, waxes, sealers, curing agents, and other contamination. New concrete must be fully cured for a minimum of 28 days. Do not apply to wet concrete. Chloride, moisture, and pH levels should be checked prior to application. Mechanically prep the concrete surface by shot blasting or diamond grinding with 30 grit or coarser diamonds to achieve a dust free CSP 2-3 profile. If applying over existing coating, beyond the recoat window, the surface should be sanded thoroughly with 60-120 grit sand paper until the surface is completely abraded with scratches. Substrate and material temperature should be 59°F - 86°F with a maximum relative humidity of 85%. If applied outside these limits the coating may have excessive air entrapment, bubbles, blisters, blushing, hazing, curing issues, or adhesion issues.

**COVERAGE RATE:**

Primer Direct to Concrete: 150-200 sq ft per gallon (8-12 mils).

**MIXING:**

Pre-mix Part A and Part B separately with a stir stick, low speed mixer, or vigorously shake containers prior to combining components together to ensure uniform distribution of raw materials. Pour contents from Part B container into the Part A container, then mix with a helix or jiffy mixer for 2 minutes at various angles, directions, scooping sides, bottom, and all around for a good uniform mix. For best results, pour contents into a separate clean container and mix again for 30 seconds to avoid any unmixed material clinging to walls of the container. Avoid creating a vortex in the material which could introduce air and/or moisture content to the mixture. Immediately pour contents out of the pail onto the floor to begin spreading. Only prepare quantity that may be applied during pot life of mixture. Discard the pail promptly, do not leave it tilted upside down on the floor.

**APPLICATION:**

Apply mixed material by pouring onto the surface and spread with a flexible squeegee, lint free roller, or T-Bar. Use a brush or small roller for edges, corners, and other hard to reach areas. If the material becomes thick while applying and sticking to the application tools, stop applying and discard the mixed material. Subsequent overlaps must be applied when primer is still wet or tacky. Porous substrates may require multiple priming. Clean-up tools and equipment with Xylene. FOR PROFESSIONAL USE ONLY!

**RESTRICTIONS:**

Apply mixed material by pouring onto the surface and spread with a flexible squeegee. Avoid creating puddles. Use an 18" lint free shedless 3/8" nap roller to evenly spread the product across the surface. Use a brush or small roller for edges, corners, and other hard to reach areas. If the material becomes thick while applying and sticking to the application tools, stop applying and discard the mixed material. Subsequent overlaps must be applied when primer is still wet or tacky. If primer has dried, reprime. Porous substrates may require multiple priming.

- Minimum/Maximum temperature of substrate: 50 ° F / 86 °F
- Maximum relative humidity during application and curing: 85 %.
- Substrate temperature must be 5.5 ° F above dew point measured.
- Humidity content of substrate must be < 4 % when coating is applied.
- Do not apply on porous surfaces where a transfer of humidity may occur during application.
- Protect from humidity, condensation and contact with water during the 24 hour initial curing period.

**HEALTH & SAFETY:**

See SDS Sheets for Details

**WARRANTY**

All statements, recommendations and technical information contained in this document are accurate to the best knowledge of **ResinForce® Products, LLC**. The data relates only to the specific material designated herein. It may not be valid if used in combination with any other materials. It is the users' responsibility to verify the suitability of this information for their own particular use, and to test this product before use. **ResinForce® Products, LLC** assumes no legal responsibility for use upon this data. **ResinForce® Products, LLC** assumes no legal responsibility for any direct, indirect, consequential, economic, or any other damage except to replace the product or refund the purchase price as set out in the purchase agreement.

**PART A INGREDIENT DISCLOSURE:**

CAS 8001-79-4 Castor Oil

**PART B INGREDIENT DISCLOSURE:**

CAS 101-68-8 Methylendiphenyl 4,4'-Diisocyanate  
CAS 26447-40-5 Diphenylmethane Diisocyanate

**FOR MORE INGREDIENT INFORMATION VISIT [WWW.RESINFORCE.COM](http://WWW.RESINFORCE.COM)**

**FOR PROFESSIONAL USE ONLY!**

This data sheet provides typical properties for **ResinForce® Products, LLC**. Before using this product, the user is advised and cautioned to make their own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. Please consult our SDS for further safety information.