

**DESCRIPTION:**

**ResinForce® EasyPoly® High Solids Fast Cure 3H** is a two component (1:1), high solids, fast cure, VOC compliant, aliphatic polyaspartic topcoat system. It provides outstanding clarity, appearance, high gloss, low odor, UV resistance, and amazing chemical resistance. This fast cure version provides extended working times, and the high solids formulation provides virtually no odor or shrinkage during the curing process and is extremely user friendly to apply with extended working times.

**USES:**

Marine protection for fiberglass, steel, concrete or wood  
UV-stable top coat • Aircraft hangar floors • Low temperature equipment  
Maintenance facilities • Offshore platforms • Industrial shop floors  
Car washes or wash bays • Secondary Containment • Cooling towers • Bridges  
Wastewater treatment applications

**ADVANTAGES:**

Displays fast cure times with excellent adhesion  
Superior chemical resistance • Superior weather and abrasion resistance  
Non yellowing and good gloss retention • Easy to mix 1:1 ratio by volume  
Emits virtually no odors and can be applied indoors  
Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good bond to the substrate  
V.O.C. compliant in all 50 States

**TECHNICAL PROPERTIES:**

**EasyPoly® HS (High Solids) FAST CURE 3H Properties: Based on 77°F @ 40% RH\***

Working time.....	20 - 30 Mins	Pot Life.....	40 - 50 Mins
Tack Free.....	1 - 2 Hours	Re-Coat Time.....	3 - 6 Hours
Light Traffic.....	18 - 24 Hours	Full Cure.....	3 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-3 profile. 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:**

- Option 1:** Primer Direct to Concrete: 150 – 265 sq ft per gallon (6-11 mils)
- Option 2:** Top Coat over Full Broadcast Flake Floors: 130 – 200 sq ft per gallon (8-12 mils).
- Option 3:** Grout Coat over Full Broadcast Quartz: 100 – 150 sq ft per gallon (11-16 mils)

**MIXING:**

Pre-mix Part A and Part B separately for 1-2 minutes prior to combining components together. Pour 1 Part of Part B into 1 Part of Part A by volume, then mix with a helix or jiffy mixer for 3 minutes at 300-450 rpm LOW SPEED, scooping sides, bottom, and all around for a good uniform mix. Avoid high speed mixing which will cause entrapment of air during mixing. Make sure to scrape the walls and bottom of container with straight edged trowel or mixing stick at least once to ensure homogeneous mix. Do not mix more material than can be applied within working time limits. Immediately pour contents out of the pail onto the floor to begin spreading.

**APPLICATION:**

Apply mixed material by pouring onto the surface and spread with a flat squeegee or small notch squeegee. Then back roll with an 18" lint free shedless 3/8" nap roller. Avoid creating puddles. If the material becomes thick while applying and sticking to the application tools, stop applying and discard the mixed material. Clean-up tools and equipment with Xylene.

**PRECAUTIONS & LIMITATIONS:**

Prior to application, measure and confirm Substrate Moisture Content, Ambient and Surface temperatures and Dew Point. Moisture within substrate must be  $\leq 4\%$  by mass as measured by Tramex® type concrete moisture meter on mechanically prepared surface.

AVOID CONDENSATION. The substrate must be at least 6 F above Dew Point to reduce risk of condensation. Condensation may lead to failure in adhesion.

Avoid situations where substrate temperature is considerably lower than ambient temperature. Ambient Relative Humidity must be below 85% during application and curing process.

Do not add thinners or solvents to mix. Do not add water. Dispose of waste materials in accordance with government regulations. The use of safety glasses and protective gloves is required.

**WARNING!**

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult a physician. For respiratory irritation, move affected person to fresh air. Remove contaminated clothes and clean before reuse.

Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with product may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors is recommended. Work in well ventilated area.

**PART A INGREDIENT DISCLOSURE:**

CAS 136210-32-7: 1,1'-Methylenebis[(3-methylcyclohexyl-4)-2-amino-butanedioic acid], tetraethyl ester  
CAS 136210-30-5: Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediy)bis-, 1,1',4,4'-tetraethyl ester  
CAS 108-32-7: Propylene carbonate

**PART B INGREDIENT DISCLOSURE:**

CAS 822-06-0 Hexamethylene diisocyanate

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

**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.

**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.

<b>TECHNICAL DATA @ 77°F:</b>					
		<b>PART A Resin</b>	<b>PART B Hardener</b>		
		<b>1.0 US Gal.</b>	<b>1.0 US Gal.</b>		
<b>Color</b>		<b>PART A</b> Upon Request	<b>PART B</b> Upon Request	<b>Mix</b> Upon Request	
<b>Recommended Thickness</b>		<b>FlakeShield™ MVB Primer or RF-100 Epoxy Primer</b> 5-10 mils D.F.T. (350-150 ft <sup>2</sup> /gal) <b>ResinForce® EasyPoly® Finish Coat</b> 6-10 mils D.F.T. (350-150 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 - 1:1 (100:100)			
<b>Mix Ratio, by weight</b>	Clear	A:B=100:107			
<b>Pot Life (454g)</b>		40-50 minutes @ 77°F			
<b>Solids Content, by weight</b>	Clear	<b>PART A</b> 100%	<b>PART B</b> 100%	<b>Mix</b> 98.5%	
<b>Solids Content, by volume</b>	Clear	<b>PART A</b> 100%	<b>PART B</b> 100%	<b>Mix</b> 98.5%	
<b>Density (kg/L)</b>		<b>PART A</b> 1.04 - 1.06	<b>PART B</b> 1.13 - 1.14	<b>Mix</b> 1.05 - 1.10	
<b>Thinner Recommended</b>		XYLENE			
<b>Working Time (25% / 40% R.H.)</b>		20 - 30 minutes			
<b>Abrasive Resistance, ASTM D4060, Taber Abrader (CS-17 Wheel / 1000g (2.2 lbs.) / 1000 cycles)</b>		30 mg loss			
<b>Adhesion, ASTM D4541 Concrete-primer</b>		>500 psi (substrate ruptures)			
<b>Water Absorption, ASTM D570</b>		0.2%			
<b>Water Vapor Transmission, ASTM E96</b>		Water Procedure B Film 0.01cm (0.004")	1 perm		
<b>Hardness (Shore D), ASTM D2240</b>		75-78			
<b>Flexibility, 1/8" Mandrel, ASTM D1737</b>		Pass			
<b>Falling Sand Abrasion Resistance (L sand/ 1 dry mil), ASTM D968</b>		45			
<b>Viscosity @ 77°F cps</b>		<b>PART A</b> 400-500 cps	<b>PART B</b> 150-180 cps	<b>Mix</b> 300-400 cps	
<b>Recoat Times:</b>	<b>Substrate Temp</b>	<b>Minimum</b>	<b>Maximum</b>		
	± 50°F	20 Hours	36 Hours		
	± 68°F	5 Hours	8 Hours		
	± 86°F	3 Hours	6 Hours		
<b>Curing Details:</b>	<b>Substrate Temp</b>	<b>Foot Traffic</b>	<b>Light Traffic</b>	<b>Full Cure</b>	
	± 50°F	2 Days	5 Days	8 Days	
	± 68°F	2 Days	3 Days	5 Days	
	± 86°F	18 Hours	2 Days	3 Days	
<b>Gloss, ASTM D523</b>		95+			
<b>Fire Rating CAN/ULC S102</b>		Estimated on similar coating			
	Flame spread	5			
	Smoke developed	94			
<b>Tensile Strength, ASTM D638</b>		7000-8000 psi			
<b>Compressive Strength (psi MPa), ASTM D695</b>		9000-10000			
	*W/Quartz	13700			
	*W/Chips	12200			
<b>Elongation at Break, ASTM D638</b>		100-110%			
<b>Tear Strength (PLI), ASTM D2240</b>		350			
<b>VOC (g/L)</b>		28			

\*Please note, that the indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same surface area.  
\*\*Please note, that the indicated viscosity is for clear product only. Any addition of colorant may affect the viscosity.