

DESCRIPTION:

ResinForce® EasyPoly® High Solids SC 24H is a two component (1:1), high solids, slow cure, VOC compliant, aliphatic polyurea topcoat system. It provides outstanding clarity, appearance, high gloss, low odor, UV resistance, and amazing chemical resistance. This slow 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:

- Residential Garages and Basements
- Commercial Restaurants, Food Prep, Bars, Distilleries, Wineries, Breweries
- Classrooms, Laboratories, Mechanical Rooms • Areas of light manufacturing, storage, or production
- Retail Showrooms, Sales Floors, Waiting Rooms • Fiberglass, steel, concrete or wood
- Aircraft hangar floors • Maintenance facilities
- Industrial shop floors or Car Wash Bays • Chemical Containment

ADVANTAGES:

- Extended working time (35-40 mins) and long pot life (40-50 mins)
- 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® High Solids SC 24H Properties: Based on 73-77°F @ 40% RH*

Working time.....	35-40 Mins	Pot Life.....	40-50 Mins
Tack Free.....	1-2 Hours	Re-Coat Time.....	6-10 Hours
Light Traffic.....	24-48 Hours	Full Cure.....	2-3 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.

TECHNICAL DATA @ 77°F:

PART A Resin 1.0 US Gal. PART B Hardener 1.0 US Gal.

	PART A	PART B	Mix
Color	Upon Request	Upon Request	Upon Request
Recommended Thickness	FlakeShield™ MVB Primer or RF-100 Epoxy Primer 5-10 mils D.F.T. (350-150 ft ² /gal) ResinForce® EasyPoly® Finish Coat 8-12 mils		
Shelf Life	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.		
Mix Ratio, by volume	A:B - 1:1 (100:100)		
Mix Ratio, by weight	Clear	A:B=100:107	
Pot Life (454g)	40-50 minutes @ 77°F		
Solids Content, by weight	PART A	PART B	Mix
	Clear	100%	98.5%
Solids Content, by volume	PART A	PART B	Mix
	Clear	100%	98.5%
Density (kg/L)	PART A	PART B	Mix
	1.12 - 1.13	1.13 - 1.14	1.05 - 1.10
Thinner Recommended	XYLENE		

TECHNICAL DATA @ 77°F (CONT.):

Working Time (25% / 40% R.H.)	35 - 45 minutes		
Drying Times	Tack-Free	1 - 2 hours	
	Recoat Time	6 - 10 hours	
	Foot Traffic	4 - 6 hours	
	Heavy Equipment Traffic	> 72 hours	
	Full Cure	24 - 48 hours	
Abrasive Resistance, ASTM D4060, Taber Abrader (CS-17 Wheel / 1000g (2.2 lbs.) / 1000 cycles)	30 mg loss		
Adhesion, ASTM D4541	Concrete-primer	>500 psi (substrate ruptures)	
Water Absorption, ASTM D570	0.2%		
Hardness (Shore D), ASTM D2240	75-78		
Flexibility, 1/8" Mandrel, ASTM D1737	Pass		
Falling Sand Abrasion Resistance (L sand/ 1 dry mil), ASTM D968	45		
Viscosity @ 77°F cps	PART A	PART B	Mix
	400-500 cps	150-180 cps	300-400 cps
Gloss, ASTM D523	95+		
Fire Rating CAN/ULC S102	Estimated on similar coating		
	Flame spread	5	
	Smoke developed	94	
Tensile Strength, ASTM D638	7000-8000 psi		
Compressive Strength (psi MPa), ASTM D695	9000-10000		
	*W/Quartz	13700	
	*W/Chips	12200	
Elongation at Break, ASTM D638	100-110%		
Tear Strength (PLI), ASTM D2240	350		
VOC	0 g/L		

*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.

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. Compressive strength of concrete should be at least 3,500 psi (24 Mpa) @ 28 days and at least 215 psi (1.5 Mpa) in tension at time of product application. Compression resistance of concrete must be at least 25 MPa (3625 lbs./inch²) after 28 days and traction resistance must be at least 1.5 MPa (218 lbs./inch²). 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, which is required to remove the surface laitance that appears during the concrete finishing and curing process and obtain maximum mechanical bond. 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. All cracks and substrate imperfections should be filled and repaired with **ResinForce® EasyMend™** prior to application.

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:

Materials should be at least 50°F prior to use. Pre-mix Part A and Part B separately with a slow speed mixer for 1-2 minutes prior to combining components together to ensure uniform distribution of raw materials. 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. 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. 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 flat squeegee or small notch squeegee. Then back roll with an 18" lint free shedless 3/8" nap roller. Avoid creating puddles. Use a brush or small roller for corners and areas hard to maneuver larger squeegees/rollers. If the material becomes thick while applying and sticking to the application tools, stop applying and discard the mixed material. At this point it has reached the end of the usable pot life.

Subsequent overlaps must be applied when primer is still wet or tacky. If primer has dried, reprime. Porous substrates may require multiple priming.

Clean-up tools and equipment with Xylene. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.

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.

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 136210-32-7 Aspartic acid, N,N-methylenebis(2-methyl-4,1-cyclohexanediy)bis-, tetraethyl ester
CAS 136210-30-5 Aspartic acid, N,N-(methylenedi-4,1-cyclohexanediy)bis-, tetraethyl ester
CAS 108-32-7 Propylene carbonate

PART B INGREDIENT DISCLOSURE:

CAS 28182-81-2 Poly(hexamethylene diisocyanate)
CAS 822-06-0 1,6-Diisocyanatohexane

FOR MORE INGREDIENT INFORMATION VISIT WWW.RESINFORCE.COM

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