POLYSASPARTIC

High Solids 2- Part
Polaspartic Floor Coating

2-GAL Clear KIT • **AP-91020-AB**

Product Description

ALLPRO® Hi-Solids 2-Part Polyaspartic Coating is a two component, 98.5% solids, low VOC aliphatic polyurea coating. It has excellent chemical resistance, hardness, abrasion resistance, UV stability, and has an excellent clear color. It can be applied as a clear coating or tinted with a color pod for an opaque color finish. It is ideal for protecting chip or flake floors; with a quick return to service time in as little as 6 hours for light foot traffic.

Recommended Substrates

- Properly prepared concrete floors
- Aggregate broadcast or decorative trowel quartz floor systems
- Quick return to service required
- Showrooms, kitchens, restroom, and garage floors
- Maintenance & industrial shop floors
- Aircraft hangars & offshore platforms
- Wastewater facility & secondary containment floors

Product Features

- Quick dry
- Easy mixing, 1 : 1 ratio by volume
- Low VOC and low odor
- Superior chemical, weather abrasion, impact, and scrub resistance
- Non-yellowing and good glosss retention

Standard Color	| Clear	AP-91020-AB			
Stock Color Pods	| 431	Almond	| 459	Black	| 885 Light Grey
Stock Color Pods	| 524	Silver	| 433	White	

NOTE – Add one-half (1/2) of a one (1) liter color pod to 1-gallon Part A.

Product Limitations

- For use on properly prepared floors.
- Recommended air, product & substrate temperatures 59° - 86° F.
- Max 85% relative humidity during application & curing. Protect from condensation, high humidity & contact with water during the initial 24-hour curing period.
- Protect from freezing.
- Expect longer dry times at lower temperatures & low relative humidity.
- Moisture vapor barrier primer is required if moisture content is greater than 4%.
- High performance (soft) tires may stain finish (plasticizer migration).
- Always test floor cleaners for ill effects before widespread use.

Packaging Information:	2 Gallon Kits
Mix Ratio by Volume:	1 Part A : 1 Part B
Flash Point:	Non-Flammable >200° F
Clean Up:	Xylene

Compliance

This products is VOC compliant based on limits provided by EPA, CARB, MPI GPS-1, MPI GPS-2, LEEDv4, OTC and SCAQMD.

Product Data	**AP-91020-AB**
Product Type:	Polyaspartic Polyurea
Gloss @60 ° :	95+
Wt Solids ±2%:	98.5%
Vol Solids ±2%:	98.5%
Primer Coat Mils:	6.0 - 10.0
Finish or Intermediate Coat Mils:	6.0 - 10.0
Coverage / Gal *	160 - 267
* coverage and wet and dry millage will vary by substrate type and porosity and the design specifications.	
VOC gms p/L**:	<5
** less exempt solvents and before the addition of color Pods.	
Mixed Viscosity in Centipose:	Clear 300 - 400 Colors 300 - 500
Induction Time:	None

Times listed below are based at 73° F & 50% relative humidity (RH) unless stated otherwise. Dry times, pot life & recoat times listed may vary according to the relative humidity, temperature, film build, color, and air movement of the application environment.

Pot Life: All times are approximations	@ 73° F & 50% RH	40 - 50 Minutes

Mix only what can be immediately used. Times listed are based on product in the bucket. Exceeding the pot life will likely affect color, gloss, and workability of the product.

Tack Free Time:	3 - 4 Hours
Recoat time:	6 - 10 Hours***
***as soon as the product can be walked upon with normal shoes, it can be recoated.	
Full cure:	7 Days
Recoat Window - After 24 hours, product must be abraded to create a mild profile before re-coating.	24 Hours
Shelf Life	One (1) Year unopened

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Abrasion Resistance ASTM D4060	CS-17, 1000 g, 1000 cycles, 30 mg loss	Compressive Strength ASTM D695	9,000 - 10,000 PSI
Abrasion Resistance ASTM D968 Method A	1 Liter of sand / 1 dry mil, 45 cycles	with vinyl chips / with quartz	12,200 PSI / 13,7500 PSI
Adhesion ASTM D4541	>500 PSI concrete failure	Tensile Strength ASTM D638	7,000 - 8,000 PSI
Hardness (Shore D) ASTM D2240	75 - 78	Water Vapor Transmission ASTM E96	1 Perm

Chemical Resistance Chart

R = Resistant **S = Splash / Spill** Apx 1-Hour Resistance **L = Limited Resistance** (Minor loss of gloss) **D = Discoloration a/o Loss of Gloss** Irreversable **N = Not Resistant**

CHEMICAL	RESULTS (77°F / 25° C)	CHEMICAL	RESULTS (77°F / 25° C)
1,1,1-Trichloroethane	S	Phosphoric Acid 50%	N
Acetic Acid 100%	S	Potassium Hydroxide 10%	R
Acetone	S	Potassium Hydroxide 20%	R, D
Ammonium Hydroxide 50%	L	Propylene Carbonate	L
Benzene	S	Skydrol	S
Diesel Fuel	L	Sodium Bicarbonate	R
Gasoline	L	Sodium Chloride 10%	R
Gasoline - 5% Methyl Tert-Butyl Ether (MTBE)	L	Sodium Hydroxide 25%	R
Gasoline - 5% Methanol	L	Sodium Hydroxide 50%	R, D
Hydraulic Fluid (oil)	L	Sodium Hypochlorite 10%	R
Hydrochloric Acid 20%	R	Stearic Acid	R
Hydroflouric Acid 10%	N	Sulfuric Acid >50%	L
Isopropyl Alcohol	R	Sulfuric Acid 10%	R
Lactic Acid	L	Toluene	R
Methanol	R	Trisodium Phosphate	R
Methyl Ethyl Ketone (MEK)	L	Vinegar/H20 5%	R
Methyl Tert-Butyl Ether (MTBE)	S	Water	R
Methylene Chloride	S	Water - Brine 10%	R
Mineral Spirits	L	Water - Chlorinated Municipal	R
Motor Oil	R	Water - Clorox 10%	R
Muriatic Acid 10%	R	Water - Hot 14 days at 180° F / 82° C	R
Nitric Acid 20%	N	Water - Sugar 10%	R
Phosphoric Acid 10%	R	Xylene	L

Save the Trees: Please help the world save a tree. If you must print this document, please consider printing double sided to conserve paper to help the environment.

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Horizontal Traffic Types:			
Light Foot Traffic	Y	Vehicular Traffic	Y
Heavy Foot Traffic	Y	Forklift	Y
Steel Wheel Carts	Y	Heavy Vehicle & Equipment	Y

Return to Service Time Chart
@ 77°F & 50% Relative Humidity

Light Foot Traffic	4 - 6 HRS	Vehicular Traffic	5 - 7 Days
Heavy Foot Traffic	24 HRS	Forklift	7 Days
Steel Wheel Carts	5 Days	Heavy Vehicle & Equipment	7 Days

*May vary by relative humidity, temperature, film build, color & air movement of the application environment.

Surface Condition: The surface to be coated must be clean, sound, and dry. Remove dust, dirt, laitance, grease, oil, curing compounds, waxes and any other contaminants. Any rough spots, projections or surface imperfections should be removed or patched to achieve a level surface prior to the application of any coatings.

Old or Previously Coated Concrete: Concrete surface must be cleaned and mechanically prepared using shotblasting, sand blasting, and/or diamond grinding. All oils, sealers, curing agents, waxes and fats must be removed prior to product application. Do not apply onto wet substrates. Chloride, moisture, and pH levels should be checked prior to application. If the moisture content exceeds 4%, one of our moisture vapor barrier activators must be used. All cracks, divots, depressions, or surface imperfections should be filled and repaired prior to application. Divots or depressions must be filled with a slurry of AP-91000 Epoxy 100% Solids Epoxy and sand or aggregate, AP91024 Epoxy Crack Filler or an approved patching compound.

New Concrete: New concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 MPa (3625 lbs./inch^2) after 28 days and traction resistance must be at least 1.5 MPa (218 lbs./inch^2). Shotblasting, sand blasting, and/or diamond grinding is required to remove the surface laitance that appears during the concrete finishing and curing process.

Surface Profile: All existing coatings, laitance, curing compounds, and bond breakers must be removed via shot blasting, scarifying or diamond grinding and provide a suitable profile in accordance with ICRI CSP-2 or CSP-3, but not to exceed the thickness of the coating system. Abrasive blasting or grinding is to leave the concrete in a uniform texture. Over-blasting will result in reduced coverage rates of subsequent coats of primer and finish. Sweep and vacuum any remaining dust, dirt, or contaminants with a wet/dry vacuum. All dirt, foreign contaminants, and laitance must be removed to assure a trouble-free bond to the substrate.

Moisture Content Testing: After the floor has been cleaned and abraded, moisture content tests are highly recommended. Three (3) tests are required for the first 1,000 S.F. and an additional test for every additional 1,000 S.F. in accordance with ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride Moisture Emissions Test. Other acceptable test methods are ASTM F2170 In-Situ Probes or ASTM F2659 Non-Destructive Electronic Moisture Meters. The moisture content must be less than four (4) pounds (4%) of moisture per 1,000 square feet per 24 hrs. for the standard converter. The AP-91013 Epoxy Moisture Vapor Barrier Primer can withstand up to 25 pounds of moisture per 1,000 square feet per 24 hr.

Crack Filling & Patching: Patch divots in the floor with a slurry of AP-91000 Epoxy 100% Solids Epoxy and sand or aggregate, AP91024 Crack Filler, or an approved patching compound. Fill cracks with AP91024 Epoxy Crack Filler or AP-91023 Polyurea Crack Filler in accordance with the product data sheet. Expansion joints shall be filled with an approved joint sealant.

Application Conditions: For the best results, apply when surface, product and ambient temperatures are above 59º F and below 86º F; and relative humidity is <85%. Avoid application when weather conditions are threatening, and late in the day when there is a threat of moisture condensing on wet paint.

POT LIFE: THIS PRODUCT HAS A VERY LIMITED POT LIFE. TIMES ARE LISTED AND ARE BASED UPON "TIME IN THE BUCKET." PRODUCT WILL DRY FASTER ONCE ON THE FLOOR. MIX ONLY WHAT CAN BE USED IN THE INDICATED TIME TO AVOID ANY LOSS.

NEITHER COMPONENT WILL WORK UNLESS MIXED WITH THE OTHER!
Do not re-use containers that have been converted or mix with previously catalyzed material.

Thinning: To extend pot life and to improve penetration into the substrate, this product may be thinned up to 25% with xylene.

Mixing Tools & Speed: Use a paddle mixer and a variable speed drill at low speed (300 to 450 rpm). Take care not to whip air bubbles when mixing as the bubbles will be difficult to remove once the product is applied to the concrete floor.

Mixing Instructions: Always consult the SDS and wear the recommended PPE before mixing or applying. This product has a mixed ratio of 1 part A to 1 part B. Standard packages are in pre-measured 2-gallon kits and should be mixed as supplied in the kit. We do not recommend that the kits be

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broken down unless suitable measuring equipment is available. Materials should be pre-conditioned to a moderate temperature of 50° to 73° F prior to use. Thoroughly mix each component separately using paddle mixers and a drill at low speed for a minimum of two (2) minutes. During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture and to place the solids content evenly in suspension.

Clear Part A: Pour the activator (Part B) into Part A and mix at low speed for three (3) minutes. During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture and to place the solids content evenly in suspension.

Colored Part A: When using a color pod, add one half liter mixed color pod (half a pod) to the one gallon of the clear part-A (1/2 color pod per 2-gallon kit) and thoroughly mix at low speed for a minimum of three (3) minutes. Add one gallon of part-B to the one gallon of part-A and mix for three (3) minutes at low speed . During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture. Improper mixing may result in product failure. No induction time is required; immediately pour the coating on the floor and spread as directed below.

Application: For the best results, always plan out your floor and ensure adequate materials, tools and time are available before starting. Paint to a natural break in the surface, such as a corner or edge. After mixing, pour the mixed material onto the floor in a long ribbon 12 to 18 inches wide. Do not scrape or drain containers as there may be un-mixed product on the sides that will not dry properly and leave a defect on the floor. When cutting-in larger surfaces and painting edges or corners, apply with a disposable solvent resistant china-bristle brush. Using a flat or notched squeegee, spread the material to a uniform thickness using sufficient pressure to work the material into the pores of the surface. Immediately back-roll and cross-roll the material with a clean lint-free 3/8" to 1/2" nap solvent and shed resistant woven roller cover for best results. Always maintain a wet edge during application by rolling into the previously applied coating. If necessary, apply again at a right angle. Roller covers will require replacing periodically to prevent catalyzed product from setting up on roller cover or contaminating more freshly placed material. For best results, finish by uniformly tipping off with the roller in one direction.

Coverage & Dry Time: Covers approximately 160 - 320 square feet per gallon, depending on the system thickness requirements and the profile and porosity of the surface to be painted. See page one (1) for the dry and recoat times and page three (3) for the return to service times for the respective service conditions. Not recommended for use when air, surface or product temperatures are below 59°F or above 86°F. Cleaning should not occur until 30 days after the initial application.

Recoating: If a topcoat is to be applied, stay within the recoat window or the surface will have to be sanded or screened to create a mild profile. Check the coating to be sure it has tacked off and that no blushes were developed (a whitish greasy film or deglossing). If blushing is present, if must be removed with warm soapy water and abrasive pad or xylene.

Clean Up: Minor spills, painting tools and spray equipment should be immediately cleaned with xylene. More serious spills should be contained and removed with inert absorbent material. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

SAFETY – KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY! USE WITH ADEQUATE VENTILATION! USE APPROPRIATE PPE!

SAFETY PRECAUTIONS: Refer to the Safety Data Sheet (SDS) and the product label for complete safety and precaution requirements.

IN CASE OF FIRE: Use foam, dry chemical, water spray or carbon dioxide (CO2) to extinguish.

STORAGE & DISPOSAL: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents and containers in accordance with existing federal, state, and local environmental control laws.

GENERAL LIMITED WARRANTY: ALLPRO® makes no warranty, either expressed or implied, concerning this product, its quality, performance, merchantability, or fitness for a particular purpose other than expressly designated security of this label. The buyer assumes all risks of the use and handling of this material.

Storage and Disposal

Product should be kept from freezing temperatures and stored in a cool dry location. Refer to your local city or county government for instructions on disposal options.

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