EPOXY

100% Solids Self-Leveling Epoxy Floor Coating

Part A - Clear Base • **AP-91000-A | AP-91002-A5**
Part A - 885 Grey • **AP-91001-A**
Part B - Standard • **AP-91010-B | AP-91009-B5**

Product Description

AllPro 100% Solids Self-Leveling Epoxy Floor Coating is a two-component, hi-performance chemical resistant gloss epoxy specially formulated for applications where a high build, seamless, and abrasion resistant floor is required. It provides a low VOC and low odor gloss coating with excellent chemical, abrasion, and stain resistance. It can be applied in a solid color or used as a primer and color basecoat for chip or quartz decorative floors.

Recommended Substrates

- Interior properly prepared concrete floors
- Warehouses, kitchens, restroom, and garage floors

Product Features

- Finished product or color basecoat for chip or quartz decorative floors
- Scrub & abrasion resistant
- Chemical & solvent resistant
- Low VOC and low odor
- High build - up to 24 mils
- Integrated cove base with Thixo additive
- Can be mixed with aggregate to create a slurry up to 1/4" thickness

Standard Part A:	AP-91000-A	2-Gal Clear	AP-91001-A	2-Gal Light Grey 885
	AP-91002-A5	5-Gal Clear		
Standard Part B:	AP-91010-B	1-Gal Part B	AP-91009-B5	5-Gal Part B
Stock Colors#:	AP-91033-CP	Almond 431	AP-91034-CP	Light Grey 885
	AP-91031-CP	Black 459	AP -91032-CP	Silver 524
	AP-91035-CP	Grey 305	AP-91030-CP	White 433

\# Add one (1) liter color pod per 3-gallon kit.
\# Add five (5) color pods per 15-gallon kit.

Product Limitations

- Recommended air, product & substrate temperatures 59° - 86° F and <85% RH.
- Not recommended for exterior use as accelerated chalking & fading will occur.
- Expect longer dry times at lower temperatures & low relative humidity
- The color of this product may be affected by high humidity, low temperatures, chemical exposure, and/or exposure to lighting such as sodium vapor lights.
- The moisture content of the concrete must be less than 4%.
- High performance (soft) tires may stain finish (plasticizer migration)
- Always test floor cleaners for ill effects before widespread use.

Packaging Information:	3 Gallon Kits | 15 Gallon Kits are Special Order Only
Mix Ratio by Volume:	2 Parts A to 1 Part B
Flash Point:	199.4°F Non-Flammable
Clean Up:	Xylene for tools or if coating has dried.
	Dawn® or similar grease cutting dish soap for hands and skin.

Compliance

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

Product Data		**91000 / 91001**
Product Type:		**Epoxy**
Gloss @60 ° :		95+
Wt Solids ±2%:		100%
Vol Solids ±2%:		100%
Primer Coat Mils:		6 - 8
Finish or Intermediate Coat Mils:		8 - 24
Coverage / Gal *		67 - 267

* coverage and wet and dry millage will vary by substrate type and porosity and the design specifications.

VOC gms p/L**:		88

** less exempt solvents and before the addition of color Pods.

Mixed Viscosity in Centipose:		Clear 800 - 1000
		Colors 1000 - 1400
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. Generally, for every 18°F increase in temperature, pot life is cut in half.

Pot Life: All times are approximations	@ 59° F & 50% RH	80 - 100 Minutes
	@ 77° F & 50% RH	40 - 50 Minutes
	@ 95° F & 50% RH	20 - 25 Minutes

Mix only what can be immediately used. Exceeding the pot life will likely affect color, gloss, and workability of the product.

Tack Free Time:	8 - 12 Hours
Recoat Time: ***as soon as the product can be walked upon with normal shoes, it can be recoated.	8 - 12 Hours***
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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Performance Testing Data

Abrasion Resistance	ASTM D4060	CS-17, 1000 g, 1000 cycles, 100 mg loss	Elongation	ASTM D638	6 - 7%
Adhesion	ASTM D4541	>300 PSI, 100% concrete failure	Hardness (Shore D)	ASTM D2240	85 - 90
Compressive Strength	ASTM D695	12,000 - 13,000	Tensile Strength	ASTM D638	6500 PSI

Chemical Resistance Chart

R = Resistant **L = Limited Resistance** **N = Not Recommended** **D = Discoloration a/o Loss of Gloss (irreversable)**

Test Group @ 77° F / 25° C	Splash 1 - Day	Splash 3 - Days	1 Day Immersion	3 Days Immersion	7 Days Immersion	42 Days Immersion
Aircraft Fuel	R	R	R	R	R / D	R / D
Alcohols (maximum 48% by volume of methanol) and glycol ethers	R	R	R / D	R / D	L / D	L / D
Aliphatic aldehydes including their watery solutions	R	R	N	N	N	N
Amines and their salts (in watery solution)	R	R	R / D	R / D	L / D	L / D
Anorganic lyes and alkaline hydrolysing salts (pH > 8)	R	R	R	R / D	R / D	R / D
Biodiesel	R / D	R / D	R / D	R / D	R / D	R / D
Esters and ketones - Aromatic	R	R	R / D	R / D	R / D	L / D
Esters and ketones - Non-Aromatic	R	R	L	L / D	L / D	N
Ethers - acyclic	R	R	R / D	R / D	L / D	N
Ethers - cyclic and acyclic	R	R	L / D	N	N	N
Gasolene containing max 5% by volume of bio alcohol	R	R	R	R / D	R / D	L / D
Hydrocarbons - Aliphatic and aromatic halogen ≥ C2	R	R	L / D	L / D	N	N
Hydrocarbons - Aromatic halogen	R	R	R / D	L / D	L / D	N
Hydrocarbons - Containing maximum 5% by volume of benzene, except gasolene	R	R	R / D	L / D	L / D	L / D
Lactic acid 30%	R / D	R / D	R / D	R / D	R / D	L / D
Mineral acids (up to 20%) and acidious hydrolysing salts (pH < 6)	R / D	R / D	R / D	R / D	R / D	R / D
Oil - Crude	R	R / D	R	R / D	R / D	R / D
Oil - Heating fuel and unused engine/lubricating oils	R	R	R	R	R	R
Oils - Used engine and lubricating oils	R	R / D	R / D	R / D	R / D	R / D
Organic acids (Carbon acid) including their salts (in watery solution) except formic acid	R / D	R / D	R / D	L / D	N	N
Sodium hypochlorite 4.4%	R	R / D	R / D	R / D	R / D	R / D
Watery solutions of aliphatic aldehydes (up to 40%)	R / D	R / D	R	R / D	R / D	R / D
Watery solutions of anorganic, non- oxidizing salts (pH 6-8)	R	R	R	R	R	R
Watery solutions of organic acids (carbon acids) (up to 10%) including their salts	R / D	R / D	R / D	R / D	R / D	N
Watery solutions of organic tensides	R	R / D	R / D	R / D	R / D	R / D

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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	12 - 16 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 AllPro Epoxy and sand or aggregate, AllPro 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 5751 Epoxy Vapor Barrier and 5752 Epoxy Fast Set Vapor Barrier Activators are more surface tolerant and 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 AllPro Epoxy and sand or aggregate, AP-91024 AllPro 100% Solids Fast Set Crack Filler or an approved patching compound. Fill cracks with SP-91024 AllPro 100% Solids Fast Set Crack Filler or AllPro 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 55º 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. 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: DO NOT THIN! Thinning is not necessary.

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.

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Mixing Instructions: Always consult the SDS and wear the recommended PPE before mixing or applying. Do not mix more material than can be applied to the surface to be coated. This product has a mixed ratio of 2-parts A to 1-part B. Materials should be pre-conditioned to a moderate temperature of 50° to 73°F prior to use. Higher material temperatures will drastically reduce the pot life and working time of the product.

Pre-mixed color or clear part A: Thoroughly mix each component separately using separate paddle mixers for a minimum of two (2) minutes. Pour the activator (Part B) into Part A and mix 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.

Part A – When using a color pod: Add one (1) mixed color pod (1 liter) per two gallons of the clear part-A (1 color pod per 3-gallon kit) and mix thoroughly until the color is uniform. Add one gallon of part-B per two gallons of part-A and mix for three (3) minutes at low speed (300 to 450 rpm). 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 67 - 267 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.

Broadcast: See AllPro Heavy Duty Floor Coatings Application Guide for details on application methodologies.

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 epoxy 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. If topcoating a vinyl chip floor, screen the floor to knock off the tips of the chips to ensure a smooth and even surface.

Clean Up: If the coating has not dried, clean with Dawn® or similar grease cutting dish soap. 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.

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 Corporation warrants that at the time of sale this product conforms with applicable AllPro Corporation's specifications and is free of manufacturing defects. AllPro Corporation's sole liability for products which are proven defective, and Purchaser's sole remedy, if any, shall be replacement of the product or refund of the purchase price paid. This warranty is not transferable. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ALLPRO CORPORATION MAKES NO OTHER WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESSED OR IMPLIED, OR BY USAGE OF TRADE, AND HEREBY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL ALLPRO CORPORATION BE LIABLE FOR PUNITIVE, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND.

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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