



POLYASPARTIC 80

PRODUCT DESCRIPTION

Simiron POLYASPARTIC 80 is a two-component, high performance, aliphatic polyaspartic floor coating designed for application up to 16 mils thick in a single pass over full broadcast systems. It provides superior protection through its excellent adhesion, durability, and resistance to stains, chemicals, and damaging UV rays. It can be used in both interior and exterior applications. This lower solids formula yields a lower mixed viscosity for easier application while still providing similar cure times as our fast cure version of **Polyaspartic HS** for experienced installers.

FEATURES AND BENEFITS

- Easy-to-Clean, High Gloss Finish
- Resists Abrasion and Scratches
- Superior Chemical Resistance
- UV Stable
- User-Friendly Polyaspartic, 1:1 Mix Ratio
- Fast Return-to-Service
- 80% Solids
- LEED Compliant

RECOMMENDED USES

- Restaurants, Bars & Cafeterias
- Sports Arenas/ Stadiums
- Schools & Universities
- Corridors & Lobbies
- Kennels & Labs
- Locker Rooms / Restrooms
- Garages & Auto Service Areas
- Offices & General Rooms
- Exterior or Areas Exposed to UV
- Topcoat for Floors Broadcast to Refusal or Other Floor Systems

PRODUCT INFORMATION

PRODUCT NAME	SIZE	COLOR/FINISH	ITEM NUMBER
Polyaspartic 80 Kit	2-Gallon	Clear / Gloss	40010768

TECHNICAL DATA

PHYSICAL DATA	
Components	Components
Mix Ratio (by volume)	Mix Ratio (by volume)
Curing Mechanism	Curing Mechanism
Solids by Volume/Weight	Solids by Volume/Weight
Mixed Viscosity	Mixed Viscosity
VOC (EPA Method 24)	VOC (EPA Method 24)

THEORETICAL COVERAGE		
Wet Mils (microns)	10 (250) – min.	16 (406.4) – max.
Coverage sq. ft./gal. (m2/L)	160 (4.1) – min.	100 (2.05) – max.



POLYASPARTIC 80

TECHNICAL DATA - CURE TIMES

PRODUCT NAME	MIXED VISCOSITY (CP)	72F, 20% R.H.		72F, 80% R.H.		FOOT TRAFFIC	HEAVY TRAFFIC
		WORKING TIME	TACK-FREE TIME	WORKING TIME	TACK-FREE TIME		
Simiron Polyaspartic 80	100	22 min	60 min	12 min	35 min	4 - 6 hours	48 hours

Higher temperatures and humidity will shorten pot-life and working time. You can dip & roll to apply the material to almost double the work time.
If applying a second coat, it must be applied within 24 hours after the first. If the re-coat window is missed, the coating system will need to be sanded and re-broadcast.

PHYSICAL PERFORMANCE PROPERTIES

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Coefficient of Friction (Wet DCOF)	ANSI A326.3	.63 (14 mils over full flake)
Elongation	ASTM D2370	5 – 10%
Flammability	—	Self-extinguishing over concrete
Flexibility 1/8" Mandrel	ASTM D522	Passes; No Cracking
Hardness, Shore D (24 hours, 5 days)	ASTM D2240	70, 86
Taber Abrasion (CS-17 Wheel, 1000 g Load, 1000 Cycles)	ASTM D4060	30 mg loss
Tensile Strength	ASTM D2370	4,000 psi
Gloss @ 60° Angle	ASTM D523	92 – 95
UV Resistance (Gloss after 1000 hours, in QUV)	ASTM G154	87 – 89

CHEMICAL RESISTANCE

CHEMICAL	RESULTS	CHEMICAL	RESULTS	CHEMICAL	RESULTS
10% Acetic Acid	G	Methyl Ethyl Ketone	E	Betadine	E
Vinegar	G	Xylene	E	Bleach	E
10% Citric Acid	G	Ethylene Glycol	E	Urine	E
10% Hydrochloric Acid	G	Isopropyl Alcohol	E	Coffee	E
30% Hydrochloric Acid (muriatic)	G	Mineral Spirits	F	Cola	E
10% Nitric Acid	NR	Brake Fluid	E	Ketchup	E
50% Phosphoric Acid	F	Transmission Fluid	E	Mustard	G*
10% Sulfuric Acid	F	Motor Oil	E	Red Wine	E
37% Sulfuric Acid	F	50: 1 Gas/Oil Mixture	E	*Stain is only defect.	
70% Sulfuric Acid	F	E85 Gasoline	E		
20% Ammonium Nitrate	E	E95 Gasoline	E	KEY	
20% Sodium Chloride	E	Unleaded Gasoline	E		
50% Sodium Hydroxide	G	Skydrol	E	E = Excellent	G = Good
				F = Fair	NR = Not Recommend

Chemical resistance was tested on fully cured material (after 5 days minimum).



POLYASPARTIC 80

SURFACE PREPARATION

Concrete and coated concrete surfaces must be sound, clean, dry and free of contaminants such as dirt, dust, grease, oil, silicones and other contaminants that may negatively affect adhesion.

MOISTURE VAPOR BARRIER:

A suitable moisture barrier must be in place for concrete slabs on-grade. If a moisture barrier is not in place, seasonal variations in ground moisture can cause excessive moisture vapor transmission (MVT) regardless of results measured prior to coating application. MVT rate must not exceed three pounds per 1,000 square feet per 24 hours, as directed by ASTM F1869. The relative humidity (RH) of the slab must not exceed 75%, as directed by ASTM F2170. If there is a moisture situation in excess of the above rate, the use of Simiron MVB Moisture Vapor Barrier Primer may be required. Consult a Simiron Representative for details and application procedures.

SAFETY AND TECHNICAL

Refer to the SDS sheet before use. Safety precautions must be strictly followed during storage, handling, and use. To acquire additional information or technical and safety data, please visit: www.simiron.com

TEMPERATURE

Air	35° – 85°F	2° – 29°C
Surface	35° – 85°F	2° – 29°C
Material	60° – 85°F	2° – 29°C

Higher temperatures and humidity will shorten pot-life and working time. Polyaspartic HS applications below 60°F, must use the Fast Cure version.

MIXING

1 Part Base to 1 Part Activator by volume. Mix with low speed drill and Jiffy blade for three minutes until uniform. Do not mix more material than can be applied within the work times on page 2 (material will stiffen or tack-up).

APPLICATION EQUIPMENT

Squeegee—Flat or notched rubber squeegee (depending upon DFT required) with EPDM rubber blade, available from Simiron and other manufacturers of quality application tools such as Midwest Rake Company.

Rollers—Use a 3/8" shed-resistant woven roller cover with phenolic core for back-rolling, available from Simiron and other manufacturers of quality application tools such as Wooster Brush Company.

APPLICATION PROCEDURE

1. Apply at a spread rate of 100 – 160 sq. ft. per gal. to yield 10 – 16 wet film thickness using a squeegee and back-roll with a non-shedding 3/8" nap roller.
2. In hot or humid conditions, apply via 18" roller in a dip and roll method from a roller pan as increased heat and humidity will decrease the working time of the material.
3. This material will cure faster with exposure to moisture in the air.
4. To avoid visible differences in texture or mix-to-mix "tie-ins" do not exceed 5 – 10 minutes from one mix to another.
5. Use joints as natural breaks to divide sections of the floor.
6. If less texture is desired for a broadcasted floor, apply a second coating of 6 – 8 mils (no more than 200 sq. ft. per gal.) on top of the previous coat within 24 hours after initial coat is tack free and you can walk on it.

Applying thicker than recommended, allowing material to pool, or rolling into late may leave a white, hazy appearance.

CLEAN UP & DISPOSAL

Clean up mixing and application equipment immediately after use. Use toluene, acetone or xylene; do not use alcohol. Follow solvent manufacturer's safety instructions. Be sure to follow all local, state and federal regulations when disposing of materials.

MAINTENANCE

To maintain the appearance and extend the life of the newly sealed surface, it is imperative to have a routine maintenance program. Dirt and debris that is tracked over a finished floor will quickly scratch and dull the surface. Place walk-off mats at entrances. Sweep and mop/scrub floors regularly using soft bristles/pads and a mild cleaner. Some cleaning products and equipment or improper use of these can damage a surface. Remove spills quickly to minimize damage and/or stains. Reapplication may be necessary in heavy traffic areas.



POLYASPARTIC 80

LIMITATIONS

- ⚠ Do not apply as a topcoat for a smooth floor coating system. Designed to be used over full broadcast systems (Decorative Chip, quartz, or silica sand) only.
- ⚠ Do not apply at thicknesses and temperatures not recommended.
- ⚠ Do not apply over loose or unsound concrete, asphalt or bitumen substrates, glazed tile or nonporous brick and tile, magnesite, copper, metal, polyesters, or elastomeric membranes.
- ⚠ Moving joints and shrinkage cracks may reflect through system. Joints that are designed to move may reflect through the finished flooring system if they are not honored.
- ⚠ Applying thicker than recommended, allowing material to pool, or rolling into late may leave a white, hazy appearance.
- ⚠ Tire marking may occur.

SHELF LIFE AND STORAGE

12 months from date of manufacture when stored indoors in the original unopened container at 60°F – 85°F (16°C – 29°C) in a dry location with humidity below 65%

- ⚠ Do not allow materials to freeze.

TECHNICAL ASSISTANCE



Information is available by calling SIMIRON
Toll Free: 1.866.515.8775 / +1.248.686.3600

LIMITED WARRANTY

SIMIRON warrants this product to be free from defect in the material that affects its performance for a period of one year (from date of purchase). SIMIRON will replace at no charge the quantity of the Coating that SIMIRON determines has failed to perform, as the sole and exclusive remedy for any breach of this warranty and/or any other defect or failure of the coating. Proof of purchase is required. Cost of labor for application of any product specifically is excluded. Warranty is void if Simiron products are mixed with or used in conjunction with materials that are substituted for Simiron products. Warranty is nontransferable.



CORPORATE OFFICE:

Simiron Inc
3000 Research Drive
Rochester Hills, MI 48309-3580, USA
(248) 686-3600 / (866) 515-8775

PRODUCT DATA SHEET: 10/07/2025

Disclaimer: All information provided by Simiron, Inc. concerning Simiron products, including but not limited to, any recommendations and advice relating to the application and use of Simiron products, is given in good faith based on Simiron's current experience and knowledge of its products when properly stored, handled, and applied under normal conditions in accordance with Simiron's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual conditions and other factors outside of Simiron's control are such that Simiron assumes no liability for the provision of such information, advice, recommendations or instructions related to its products. The uses of Simiron product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s).

Simiron reserves the right to change the properties of its products without notice. All Simiron product(s) are subject to its current terms and conditions of sale which are available by calling (866) 515-8775.