

## DESCRIPTION.

304 ACE 90% SOLIDS POLYASPARTIC is a two-component, fast-drying topcoat that provides exceptional abrasion chemical, UV and hot-tire resistance. The high-solids content provides a robust topcoat for ACE EPOXY systems that result in durability for the end user. This product is available in a clear gloss or can be pigmented using 500 ACE UNIVERSAL PIGMENTS. The 304 ACE 90% SOLIDS POLYASPARTIC features a long pot life for ease of application over systems ranging from decorative flake, quartz, or solid color floors.

## APPLICATIONS.

304 ACE 90% SOLIDS POLYASPARTIC is easy-to-install in a wide range of applications.

- Garage Floors
- Industrial / Commercial Floors
- Firehouse Floors
- Basements
- Kennels
- Restrooms
- Stadiums
- Educational Campuses
- Showrooms
- Locker Rooms

For previously coated surfaces, please consult ACE EPOXY Technical Support for advice.

## ADVANTAGES.

- Long pot life.
- Low odor.
- Low VOC.
- 90% Solids
- High-gloss finish.
- Minimal micro-bubbling.
- Provides an ideal build coat over flaked flooring with only one coat.
- Designed for uniform flow and leveling.
- Can be used as a standalone system or topcoat to concrete floors.
- Modular design allows for universal pigments to be mixed in as needed.
- Cures in the presence of high humidity.
- Low viscosity allows for easy application.
- Only solid to floor coating professionals.

## PHYSICAL PROPERTIES.

<b>Volumetric Mix Ratio A: B</b>		1:1
<b>Volatile Organic Compound</b>		<50 g/L
<b>Volumetric Solids</b>		90%
<b>Compressive Strength</b>	ASTM D 695	10,800 psi
<b>Tensile Strength</b>	ASTM C638	8,600 psi
<b>Surface hardness Shore D</b>	ASTM D2240	80
<b>Adhesion</b>	ACI 503R	350 psi / 100% Concrete Failure
<b>Flexural Strength</b>	ASTM D790	12,200 psi
<b>Pot Life, 1 Gallon Mass, 75F</b>		45 min
<b>Flammability</b>	Self-extinguishing over concrete	
<b>Elongation</b>	ASTM D 638	5.4%
<b>Dry to Touch Cure Time</b>	3-4 hours 7 days	

## CHEMICAL RESISTANCE.

CHEMICAL.	EFFECT.
Acetone	No Effect
Xylene	No Effect
10%HCL	No Effect
Ammonia	No Effect
Degreaser (d-limonene & Pine Sol)	No Effect
Liquid Plummer	No Effect
Vinegar	No Effect
Clorox	No Effect
Windex	No Effect
Motor Oil	No Effect
Gasoline	No Effect
Skydrol	No Effect
Hot Tire	No Effect

## PACKAGING.

KIT SIZE.	COMPONENT.	PART NUMBER.
1-Gal Kit	Kit	304-1
	Part A	304-1A
	Part B	304-1B
5-Gal kit	Kit	304-5
	Part A	304-5A
	Part B	304-5B

Storage: All containers should be stored at 45° F to 90° F and be kept tightly sealed and out of direct sunlight.

## COVERAGE.

SURFACE.	FIRST COAT.	SECOND COAT.
Over ¼" Flake	150 – 175 sq. ft per gal	175 – 200 sq. ft per gal
Over Sealed Surface	150 – 175 sq. ft per gal	175 – 200 sq. ft per gal

## ENVIRONMENTAL CONSIDERATIONS.

Ideal application environmental conditions for ACE EPOXY flooring systems are between 50-85°F and relative humidity of 65%

- Hot and humid climate will shorten the pot life and curing time, which can have an adverse effect on the final appearance of the floor.
- Cold and dry climate will increase the pot life and prolong the curing time, making the floor susceptible for contamination and longer shutdown times.
- Applying the product during descending temperature will help reduce concrete out-gassing from occurring.

Storing the material before the application in areas where the temperature is within the recommended range for at least a day is strongly recommended. Other methods accommodate for temperature and moisture outside the range is:

- Ice the buckets several hours before the application in case of hot and humid weather. Use pail warmer in case of cold weather.

- Applying the material during the night, morning or afternoon will improve application conditions for hot weather. Applying during the day will help with colder conditions.

Consult with ACE EPOXY Technical Support.

## TECHNICAL SUPPORT.

[www.aceepoxy.com/techsupport](http://www.aceepoxy.com/techsupport)

Scan for system support and videos



## SUBSTRATE CONDITIONS.

304 ACE 90% SOLIDS POLYASPARTIC should be used in conjunction with 202 ACE EPOXY or 204 ACE EPOXY. Refer to ACE FLAKE SYSTEM guide for additional information.

## RECOMMENDED APPLICATION TOOLS.

- 18" x 3/8" Lint free Rollers
- 18" roller assembly
- Epoxy / Paint Mixer
- Spike Shoes
- Bent Floor 24" Scraper + Handle
- Rigid 18" Floor Scraper + Handle
- 4-Inch Weenie Roller Frame
- 4-Inch Weenie Roller 3/8 Nap 2 Pack
- 6-Inch Weenie Roller Frame
- 6-Inch Weenie Roller 3/8 Nap 2 Pack
- 22" Magic Trowel
- Acetone or Xylene for cleaning
- Rags
- Gloves, Long Pants & Long Sleeves
- Eye Protection
- Respirator compliant with NIOSH / Face mask

## POLYASPARTIC APPLICATION.

1. If applying 304 ACE 90% SOLIDS POLYASPARTIC over a previously coated floor, lightly sand the surface to create a profile that allows for inter-coat bonding.
2. Premix Part A and Part B in their respective buckets.
3. Pour Part B into Part A and mix for 3 minutes using a jiffy blade mix with a low-speed drill.

4. Make sure that all of the material in the container has been mixed. Scrape the walls of the bucket with a wooden paddle to ensure all material is mixed. Continue mixing for 1 minute.
5. Use spike shoes when applying 304 ACE 90% SOLIDS POLYASPARTIC for proper reach of the areas of application.
6. Pour the material in even lines about 4" to 6" thick.
7. Using an 18" x 3/8" nap roller, spread the polyaspartic topcoat to achieve a rate of 150 - 175 sq. ft per gallon.
8. Assure there is a wet edge of uncured material between applications of material for uniformity and proper curing process.
9. Allow 304 ACE 90% SOLIDS POLYASPARTIC to cure proper time according to climate conditions before opening for traffic. Please refer to product TDS for curing times.

**ACE EPOXY** guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. **ACE EPOXY** (herein referred to as "seller") makes no warranty, expressed or implied, regarding the use of its products. Since use of this product is beyond the seller's control, the buyer assumes all risk of use. Seller's obligation shall be to replace material if found defective. Seller shall not be liable for any damage, injury, loss, direct or consequential, resulting from the use of its products. End user must determine if substrate is suitable for coating application before installing.

## LIMITATIONS.

- 304 ACE 90% SOLIDS POLYASPARTIC is combustible and measurements to assure its safety and integrity are highly recommended.
- All sources of ignition should be turned off during installation and remain off until solvent vapors have dissipated.
- Not resistant to acids
- Requires a moisture vapor barrier for substrates that exceed 3lbs of MVT.
- Consult with **ACE EPOXY** Technical Support for applications other than epoxy and concrete.
- Will not bridge cracking.

**Slip Resistance OSHA and the American Disabilities Act (ADA)** have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. **ACE EPOXY** recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. **ACE EPOXY** will not be responsible for injury incurred in a slip and fall accident.