

SS Polyaspartic 100%



Technical Data Sheet (06/16/14)

TWO-COMPONENT POLYASPARTIC ALIPHATIC POLYUREA UTILIZING NANOTECHNOLOGY

PRODUCT DESCRIPTION

SS Polyaspartic 100% is a two-component Polyaspartic Aliphatic Polyurea utilizing innovative proprietary Nanotechnology. It provides a high gloss clear coating. It's extremely quick curing time provides unmatched labor saving capabilities above epoxies and polyurethanes. SS Polyaspartic 100% can be used for most types of interior applications over properly prepared surfaces. It's superior penetration and bonding strength can provide years of abrasion, impact, and wear resistance. SS Polyaspartic 100% yields chemical splash and spill resistance as well as hot tire pick-up resistance much like it's epoxy counterpart. SS Polyaspartic 100% can be used easily in conjunction with quartz, chip, and rubberized aggregate systems.

BENEFITS AND FEATURES

- Provides ultimate abrasion, impact and wear resistance far exceeding many other coating products.
- It's excellent penetrating and bonding capabilities provide many years of durability.
- Highly economical considering the labor that can be saved by the shortened curing and application times.

RECOMMENDED APPLICATIONS

SS Polyaspartic 100% is recommended for use on interior concrete floors and other cementitious surfaces where a high gloss chemically cured coating is recommended. The SS Polyaspartic 100% coating are idea for mesh graphics.

TECHNICAL INFORMATION

Solids	100%
Pot Life.....	10–15 minutes
Re-coat Time.....	2–3 hours
Foot Traffic.....	3–4 hours
Wheel Traffic.....	24 hours (recommended)
Application Temp.....	40°F–85°F
Wet Appearance	Clear
Dry Appearance	Clear and Very High Gloss
VOC Content	<320 g/l
Blush Resistance.....	Excellent
Solvent Resistance	Excellent
Concrete Adhesion	Excellent

Meets USDA/CFSAN, U.S. Food Code, physical facilities criteria as outlined in 6.100.11 Surface Characteristics USDA acceptable. Not intended for 21 CFR food contact.

Please note that low air and/or concrete temperatures and/or relative humidity may extend drying times. Follow recommended coverage rates for best results.

PROPERTY PROFILE

Tensile Strength: ASTM D 638: 4,500 to 5,000 psi
Mandrel Bend ASTM D 522: Passes, no cracking, 1/8" mandrel bend
Falling Sand Abrasion Resistance ASTM D 968: Clear...30 liters sand/ 1 dry mil

APPROXIMATE COVERAGE RATES

Theoretical Coverage @ 100% Solids (Volume) per gallon
@ 1 mil dft 1,604 square feet per gallon
Average applied coverage is 250–400 square feet per gallon.

INSTRUCTION FOR USE

SURFACE PREPARATION: The concrete surface must be deemed mechanically and structurally sound, completely clean, and dry. To achieve the above desired results, a mechanical grinding method should be performed to an approximate 50–100 grit profile to insure flatness of the substrate, to remove surface impurities, and to profile the surface of the floor to a CSP-2, as recommended by the ICRI Technical Guideline No. 03732. If mechanical means of preparation are not suitable, it is recommended to prepare the surface with a muriatic acid solution of 1 pt. acid to 4 pts. water. Note, if using SS Surf Prep as preparation method, the final rinse should contain a neutralizing agent such as ammonia or baking soda and water.

POTLIFE: Expected workable pot life after mixing Part A and Part B is approximately 10–15 minutes at a common temperature range of 70°F–80°F at roughly 50% relative humidity. Please note that higher temperatures and high humidity will shorten pot life, as colder temperatures and lower humidity will extend the coatings pot life.

MIXING: Proper mixing is pertinent to application success. In exact parts (3:2), mix Part A and Part B using a clean, dry working pot (mixing container). Stir contents approximately 30-60 seconds. Avoid over-mixing or creating a vortex which could introduce moisture content to the mixture. No induction time is required prior to use, nor after mixing. If integrating anti-skid media agents, only do so after Parts A & B have been thoroughly mixed.

APPLICATION: SS Polyaspartic 100% should be completed using a 3/8" synthetic nap, phenolic core roller, or a lambs wool cover for pigmented, stained floors, or media coats. Use a foam squeegee and back roll with the roller over media floors (quartz or chips). It is recommended to use only 18" wide squeegees and rollers. If considering using airless application method, consult the manufacturer prior to application. Please note that the use of pump-up style spray bottle may create visible bubbles, blisters, and pinholes and is not recommended.

CLEAN UP

Use Xylene. Dispose of containers in accordance with local and federal regulations.

PRODUCT REMOVAL

Dried, cured polyaspartic may be removed by using a diamond grinding method, sandblasting method or similar mechanical action. Paint strippers will not remove this product when cured.

SHELF LIFE

SS Polyaspartic 100% has a shelf life of up to 12 months in it's original, sealed, unopened containers.

PACKAGING

SS Polyaspartic 100% is packaged in five quart, and five gallon kits.

PRECAUTIONS AND LIMITATIONS

- SS Polyaspartic 100% will not freeze during storage, however, allow temperature to rise to 50° F prior to application.
- All HVAC ventilation ducts should be blocked prior to application so solvents fumes are not distributed. It is recommended to turn OFF the HVAC system.
- Keep away from open flames. SS Polyaspartic 100% is flammable and is susceptible to ignition.

- It is not recommended to apply SS Polyaspartic 100% to any floor without recommended preparation.
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- SS Polyaspartic 100% was designed for interior applications only. Exterior applications may not provide adequate adhesion.
- Please be aware that this product when cured may be slippery when wet.
- SS Polyaspartic 100% has resistance to many chemicals, however testing chemical resistance is always recommended.
- It is not recommended to thin SS Polyaspartic 100%. It is a two component system which must be blended exact to specifications.
- SS Polyaspartic 100% may darken the surface of many new and existing concrete slabs. Test prior to use.
- Keep out of reach of children!
- Use appropriate personal safety protection gear such as particle masks, eye protection and gloves.
- The statements made within this technical data sheet, SDS, product labels, etc are guidelines only. The end user should always perform tests and product evaluations prior to application to ensure suitability for particular uses.

SPECIAL NOTES

Please consult Safety Data Sheet (SDS) and read Warranty information prior to use. This information can be requested by contacting customer service at 866-906-2006.

WARRANTY:

SS Specialties warrants our products to be of good quality, free of defects and will conform to our published specification in force on the date of acceptance of the order. As the exclusive remedy for breach of this warranty, SS Specialties will replace defective materials ninety days after SS Specialties has shipped the product, all our warranty and other duties with respect to the quality of materials delivered shall conclusively be presumed to have been satisfied, all liability therefore terminates, and no action for breach of any said duties may thereafter be commenced. No warranty is expressed or implied as to the length of life of this product or merchantability or fitness. Liability, if any is limited to the purchase price of the material under no circumstances will SS Specialties be liable for a consequential damage to any in excess of the purchase price of their product.

