

# enSPARTIC

Technical Data Sheet [03/31/16]

## TWO-COMPONENT POLYASPARTIC ALIPHATIC POLYUREA



### PRODUCT DESCRIPTION

enSPARTIC is an outstanding, two-component (1:1) 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. enSPARTIC is for interior concrete countertop applications over properly prepared surfaces. It's superior penetration and bonding strength can provide years of abrasion, impact, and wear resistance. enSPARTIC yields chemical splash and spill resistance much like it's epoxy counterpart.

### BENEFITS AND FEATURES

- Provides ultimate abrasion, impact and wear resistance far exceeding many other applications, perfect for concrete countertops
- Entire application, in most cases, can be accomplished in just one day
- It's excellent penetrating and bonding capabilities provide many years of durability
- Highly economical considering the days of labor that can be saved by using a one day application

### RECOMMENDED APPLICATIONS

enSPARTIC is recommended for use on interior concrete countertops and other cementitious surfaces where a high gloss chemically cured coating is recommended.

### TECHNICAL INFORMATION

Solids .....	70%	Wet Appearance .....	Clear
Pot Life.....	25–30 minutes	Dry Appearance.....	Clear and very high gloss
Re-Coat Time.....	2–3 hours	VOC Content .....	< 320 g/l
Foot Traffic.....	3–4 hours	Blush Resistance .....	Excellent
Wheel Traffic .....	24 hours	Solvent Resistance .....	Excellent
(recommended)		Concrete Adhesion .....	Excellent
Application Temp.....	40°F–85°F		

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 70% solids (Volume) per 2 quart kit:  
DFT ..... 500 ft. @ 1 mils      DFT ..... 125 ft. @ 4 mils  
DFT ..... 250 ft. @ 2 mils      DFT ..... 100 ft. @ 5 mils  
DFT ..... 166 ft. @ 3 mils      DFT ..... 83 ft. @ 6 mils

Coverage rates vary depending upon surface porosity and texture, and application method. Follow directions for best results.

### INSTRUCTION FOR USE

**SURFACE PREPARATION:** Before application, the countertop surface must be clean, dry and have a minimum surface profile of CSP 2.

**MIXING:** Mix Part A and Part B in equal parts (1:1) using a clean, dry, working pot. Stir 30–60 seconds. Avoid over-mixing or creating a vortex that would introduce moisture. No induction time is required prior to use. If micro-media agents are to be incorporated, they are to be added into Part A before mixing Part A and B. If adding micro-media agents, pre measure Part A and Part B.

**POT LIFE:** Expect 25 to 30 minutes workable pot life at temperatures from 70°F to 80°F [and 50% relative humidity]. Higher temperatures and more humidity will shorten pot life. Colder and drier conditions extend pot life.

**APPLICATION INSTRUCTIONS:** Apply only to a cured and bare concrete surface with a minimal concrete surface profile of one (CSP-1) as recommended by ACI. Prime with enSPARTIC or enPOXY. A tight napped (3/8") phenolic core shed resistant roller is recommended although a brush may also be used. Do not use a pump-up sprayer or spray bottle which may cause bubbles, blisters, or pinholes. Pressured sprayers may be used. Be aware that the fast curing nature of the material makes immediate clean up necessary with Xylene. Apply in thin coats approximately 3–6 mils. Re-coat when dry. Two to three coats are recommended. At 70°F (21°C) and 50% relative humidity, allow each coat to cure a minimum of 2–4 hours between each coat. Note: While light duty is nearly immediate, full cure requires 7 days.

*Please note: It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc.*

### 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

enSPARTIC has a shelf life of one year in it's original, sealed, unopened container.

### PACKAGING

enSPARTIC is packaged in two quart kits.

### PRECAUTIONS AND LIMITATIONS

- enSPARTIC 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. enSPARTIC is flammable and is susceptible to ignition.
- It is not recommended to apply enSPARTIC on any countertop without recommended preparation.
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- enSPARTIC has resistance to many chemicals, however testing chemical

resistance is always recommended.

- It is not recommended to thin enSPARTIC. It is a two component system which must be blended exactly to specifications.
- enSPARTIC may darken the surface of many new and existing concrete slabs. Test prior to use.
- enSPARTIC was designed for interior applications only. Exterior applications may not provide adequate adhesion.
- 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

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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

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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.

