

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 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