

enSPARTIC

ADVANTAGES: Self-priming, excellent penetration and bond strength, excellent abrasion, impact, wear resistance, UV-resistant, with optical clarity. Low-temperature cure (-30°F/-34°C) (Note: Reference is related to surface temperature, not ambient temperature.) Recoat time is 1 hour in normal temperature and humidity levels. Meets FDA/CFR, U.S. Food Code, Physical Facilities criteria as outlined in 6.101.11 Surface Characteristics. Not tested for 21 CFR food contact. Excellent stain resistance. Does not support bacterial growth. Random/incidental heat contact: tolerant to 300°F. Three to four times the abrasion resistance rating of epoxy.

PRODUCT USES: Residential, commercial, institutional, and industrial work surfaces where chemical and abrasion resistance and fast "return to use" factors are critical. UV stability allows outside use for applications as varied as outdoor kitchens and BBQ areas, conference tables, kitchen countertops, and commercial food prep tables.

PRODUCT DATA:

Type of Material: Polymer-Extended Polyaspartic Aliphatic Polyurea

VOC Content: 2.8 lb/gal (340 g/l) to 0 (zero) VOC Content

Recommended Dry Film Thickness: 2 to 6 mils per coat

Clear: High gloss or Satin

Pigmented: Standard factory or custom colors

Shelf Life: 12 months unopened. Store at 40°F to 100°F in a covered area (out of the sun)

Pot Life @ 70°F (20°C) and 50% Relative Humidity: 25 to 30 minutes

Minimum Recoat @ 70°F (20°C) and 50% Relative Humidity: 1 hour, minimum

Maximum Recoat @ 70°F (20°C) and 50% Relative Humidity: 48 hours (contact manufacturer)

Mixing Ratio @ 70°F (20°C) and 50% Relative Humidity: 1.0 part A; 1.0 part B

PROPERTY PROFILE:

Tensile Strength: ASTM D-638: 5935 psi

Elongation: ASTM D-638: 9 %

Taber Abrasion: ASTM D-4060: 21.7 mg lost

Impact Direct/Reverse: ASTM D 2794: 120 lb/in

Falling Sand Abrasion Resistance ASTM D 968:

Clear30 liters sand/1 dry mil

Mandrel Bend ASTM D 522: Passes, no cracking,
1/8 in. mandrel bend

Dry Time: 1 hour 15 minutes

Pendulum/Time: 146.53

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Theoretical Coverage @ 70% Volume Solids:

DFT	1,123 ft • 1 mils
DFT	562 ft • 2 mils
DFT	374 ft • 3 mils
DFT	281 ft • 4 mils
DFT	225 ft • 5 mils
DFT	187 ft • 6 mils

SURFACE PREPARATION: Before application, the countertop surface must be clean and dry. Have a surface profile of a minimum of CSP of 1 when using either Gloss or Satin products.

MIXING: Mix Part A and Part B in equal parts (1:1) using a clean, dry, working pot. Stir 30 to 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 after thorough mixing of A and B.

POTLIFE: Expect 25 to 30 minutes workable potlife at temperatures from 70°F to 80°F (and 50% relative humidity). Higher temperatures and more humidity will shorten potlife. Colder and drier conditions extend potlife.

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 only with enSPARTIC. Roller is recommended although brush may also be used. Use only tight napped rollers (3/8") and better quality brushes. 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 Xylol. 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.

CLEANUP: Use Xylol or MEK. DO NOT USE ALCOHOLS.

STORAGE AND SHELF LIFE: Recommend storing product in tightly sealed containers in climate-controlled, dry location at normal room temperature. Containers which have been opened for use must be re-sealed immediately in a new container, preferably filled to the top (the more airspace in the container the greater the potential for reaction with moist air, decreasing the shelf life of the product).

SAFETY PRECAUTIONS: Use only in well ventilated areas. Use respirators (ODF Multi-absorbent, Multi-Gases & Vapors/P100 cartridge). Protect eyes and skin from direct contact. KEEP OUT OF REACH OF CHILDREN.



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