

enPOXY

Technical Data Sheet (1/31/14) 100% SOLIDS CLEAR EPOXY



PRODUCT DESCRIPTION

enPOXY is a clear two part 100% epoxy system especially well suited for concrete countertops and vertical applications. enPOXY meets all FDA standards, while providing a food grade surface that does not support bacterial growth.

BENEFITS AND FEATURES

- Excellent resistant to stain
- Provides appearance of depth and enhances the color
- Works beautifully with enCOUNTER Professional Countertop Mix

RECOMMENDED APPLICATIONS

enPOXY is suitable for indoor countertops, backsplashes and flooring.

TECHNICAL INFORMATION

Abrasion Resistance.....	28.1 mg loss (Tabler Index, ASTM 4060-81, CS-17 Abrasion Wheel, 1000 gram load)
Gloss 60°	90-95
Flexibility (1/8" Mandrel)	Pass
Hardness—Shore D	82
Compressive Strength @ Yield (psi)	11,200
Tensile Strength (ASTM D638)	6200
Elongation	7%
Solids % Weight (Federal Spec. TTP-141B)	100%
Density lbs/Ga. (Federal Spec. TTP-141B)	9.32
VOC	<5 grams per liter
Mix Ratio (a/b volume)	2 to 1
19.33# part A (2.0 gallon approximate) to 8.66# part B (1 gallons approximate)	
Viscosity	400–600 cps
Pot Life	15–45 minutes
Dry Time—Set to Touch (50% R.H. @ 72° F)	6–8 hours
Dry Time—Recoat (50% R.H. @ 72° F)	10–16 hours
Dry Time—Light Traffic (50% R.H. @ 72° F)	24 hours
Dry Time—Full Cure (heavy traffic) (50% R.H. @ 72° F)	3–7 days
Application temperature.....	55–90° F

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

CHEMICAL RESISTANCE

Butanol	C	MEK.....	A
Xylene	C	10% Sodium Hydroxide	E
1,1,1 trichloroethane.....	B	50% Sodium Hydroxide	D
Methanol	A	10% Sulfuric Acid	C
Gasoline	C	70% Sulfuric Acid	A
Skydrol B-4.....	B	5% Acetic Acid.....	B
Ethylene Alcohol	C	10% HCl (aq).....	C

Rating Key: A—not recommended, B—2 hour term splash spill, C—8 hour term splash spill, D—72 hour immersion, E—long term immersion.

A chemical exposure test should always be performed prior to application resistance to ensure satisfactory results are obtainable.

APPROXIMATE COVERAGE RATES

For countertops 33 sq. ft. per ¾ gallon

For floors 100 sq. ft. per gallon

**Coverage rates above reflect approximate coverage of finished product (per gallon) applied per instructions. Coverage rates will vary significantly and will be determined upon the surface porosity of the concrete as well as the application style.*

INSTRUCTION FOR USE

SURFACE PREPARATION: Allow at least two days dry time at 70° temperatures before applying enPOXY to a clean and dry surface free of any contaminants. Sealing uncured surface with enPOXY may result in blushing.

MIXING: Mix enPOXY 2 parts A to 1 part B. Avoid whipping air into the enPOXY, slowly mix by hand or low rpm mixer for two minutes. Pour mixed parts A & B into a separate bucket and continue mixing for 5 minutes. The pot life after mixing is approximately 15 minutes. Working time is extended to 30–45 minutes by pouring enPOXY onto the countertop immediately after mixing.

APPLICATION: enPOXY can be applied with brush, trowel or squeegee. Use a spike roller and heat gun to pop air bubbles. Best results are achieved when the surface to which the enPOXY is applied to is 60°F or higher, the ambient temperature and the enPOXY is best at 70°F, but not exceeding 90°F. Ideal temperatures for all three is 77°F. enPOXY can take light use after 24 hours in normal temperatures and full use after 3 to 7 days.

OPTIONAL SECOND COAT: If a second coat is needed, scuff the hardened surface with 220 grit sandpaper, clean and reapply.

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. Conduct tests on smaller pieces to gain familiarity before applying to the larger project.

CLEAN UP

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

PRODUCT REMOVAL

Dried, cured epoxy may be removed by chemical means including sanding, shot blasting, etc.

SHELF LIFE

enPOXY has a shelf life up to one year (12 months) in it's original, sealed, unopened container.

PACKAGING

enPOXY is packaged in ¾ gallon, 1.5 gallon and 3 gallon kits.

PRECAUTIONS AND LIMITATIONS

- All new concrete flooring should be cured for at least 28 days prior to application.
- enPOXY is NOT recommended for outdoor use.
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- Be aware that this product may be slippery when wet. Anti Slip additives may be needed to reduce surface slip hazards.
- enPOXY may darken the surface of many new and existing concrete substrates. Test prior to use.
- Physical properties listed on this technical data sheet are typical values not specifications.
- If applying over an existing coating, proper adhesion and compatibility tests are essential. In this application the substrate preparation, application, performance and all other liabilities are strictly the end users responsibility.
- 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.



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