



POLYMERICA INCORPORATED

POLYMERICA PRODUCT DATA

MasterSpec EPS Epoxy Penetrating Sealer

PRODUCT PRESENTATION

MasterSpec EPS is an ultra-low viscosity 100% solids epoxy sealer designed to penetrate and seal porous and cracked concrete slabs. Specifically formulated for gravity-flow crack sealing, its excellent wetting properties facilitate penetration and also provide tenacious bond strengths.

EPS can also be used to dust-proof concrete or as a primer for other epoxy or polyurethane coatings.

EPS-P is tinted for priming under coatings **EPS-LT** is recommended for application temperatures below 60°F. **EPS-WG** is used for vertical applications.

PRODUCT FEATURES

- ➔ 100% solids, no solvent and no water
- ➔ Non-volatile and low odor, can be used in occupied facilities
- ➔ moisture insensitive for application to “can’t dry” cracks and surfaces
- ➔ exceptionally high coverage rates

COVERAGE

Applied as a sealer or primer, **EPS** will cover 300 - 600 sq. ft. per gallon yielding 2.6 - 5.3 mils DFT For gravity flow, one gallon yields 231 cubic inches As a primer under colored coatings, **EPS-P** and **EPS-WG** should be applied at 160 - 175 sq. ft. per gallon.

PACKAGING

Unit Size	Part A	Part B	Weight*
1 gallon	1 x 3/4	1 x 1/4	11 lbs.
4 gallons	1 x 3	1 x 1	40 lbs.
20 gallons	3 x 5	1 x 5	194 lbs.

*approximate shipping weight

INSTALLATION GUIDELINES

Preparation: Surface must be properly prepared. Consult Bulletin SP-C for details. Minimum application surface temperature is 40°F, preferably 65°F - 75°F.

Cracks must be clean and sound, and free of standing water. Sandblast or use other mechanical means to remove laitance, grease, and other loose or foreign material.

Mixing: Observe all precautions on MSDS and label when using this product. Premix Part A with a low-speed drill for at least two (2) minutes, then mix 3A : 1B by volume for an additional two minutes. Blend thoroughly, scraping sides and bottom of container frequently.

Application: For gravity flow, pour or squeegee neat EPS into V-notched crack. Continue feeding until crack no longer accepts material.

Seal underside of slab if crack is full depth. For priming or sealing, apply with a squeegee and back roll with a short nap roller. Do not puddle. EPS can also be sprayed or brushed.

Cure: EPS will tack in 60 - 90 minutes at temperatures above 70 °F. Coatings can be applied in 4 - 8 hours. To ensure a chemical bond, subsequent coatings should be applied within a 24 hour window.

Clean-Up: Clean skin with soap and water Use MEK or proprietary epoxy thinners for equipment.

PHYSICAL PROPERTIES

Composition:	Two-component amine adduct cured epoxy
Color:	Clear
Weight/gallon:	9.04 lbs. MIXED
Solids Content:	100%
Mix Ratio:	3A : 1B by volume
Pot Life EPS:	25 - 30 min. @ 70°F
EPS-IT:	7 - 10 min. @ 70°F
Viscosity:	Clear: 250 - 350 cps. @ 77°F mixed Wall Grade and pigmented systems are higher

PERFORMANCE PROPERTIES

Tensile Strength: (ASTM D-638)	8,500 psi.
Slant Shear Strength	2,100 psi.
Elongation (ASTM D-638)	5.5%
Adhesion: (ASTM D-4541) to metal:	2,600 psi.
to concrete:	350 psi. (concrete fails)
Hardness: (ASTM D-2240)	75 (Shore D)
Abrasion Resistance: (ASTM D-4060)	35 - 40 mg. loss CS-17 wheel, 1 kg. load, 1,000 cycles
Service Temperature:	160°F immersion 185°F dry heat

SAFETY

Material Safety Data Sheets are available from **POLYMERICA** and should be consulted prior to use of the product. These products are intended for use by professionals only. Keep away from children and those not trained in the use and potential hazards involved.

MasterSpec EPS is a two-component epoxy system. Part A contains epoxy resins. Part B contains polyamine epoxy adducts. Workers should wear gloves, goggles and body covering clothing when mixing or applying product. Clean up with soap and warm water. Be sure to follow all label and MSDS cautions.

For additional information, visit our web site:

www.polymerica.com

Or e-mail us at - info@polymerica.com

CHEMICAL RESISTANCE

Reagent	Rating
Acetic Acid 5%	L
Acetone	L
Bleach	L
Citric Acid-50%	R
Crude Oil	R
Diesel Fuel	R
Ethylene Glycol	R
Fatty Acids	L
Gasoline	R
Hydrochloric Acid-15%	R
Lactic Acid-15%	R
Methyl Ethyl Ketone	L
Nitric Acid-10%	R
Skydrol	R
Sodium Hydroxide 50%	R
Sulphuric Acid-30%	R
Toluene	L
Urea	R
Vinegar	L
Xylene	L

R - Recommended for continuous service

L - Limited recommendation, occasional spills

This chart is intended as an aid in evaluating the performance of these systems in various chemical exposures at 70°F. The data is intended as a guide only. In severe or combination exposures, a sample should be tested under actual or simulated use conditions.

Product data is revised as needed to reflect the most recent technology and field experience. Consult **POLYMERICA** for current printing date of literature.

WARRANTY

POLYMERICA warrants its products to conform to its manufacturing standards. **POLYMERICA** will replace or refund the purchase price of non-conforming products at the seller's option; such remedy being exclusive of all others and sole remedy available to the buyer. Buyer hereby expressly waives claim to additional damages. Any claim under this warranty must be made in writing within 7 days of discovery of noncompliance and no later than one year from the date of delivery of product. No representative, distributor or applicator of these products is authorized to modify product data or warranty.

IMPORTANT NOTICE

These products are sold subject only to the express warranties contained herein. There are no other warranties by **POLYMERICA** of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Buyer agrees that seller assumes no liability for remote or consequential damages of any kind which result from the use or misuse of this product. Information contained herein is based on data believed to be reliable, however it is the Buyer's responsibility to satisfy itself of the suitability of the product for a particular purpose.

MSEPS-083106

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