



POLYMERICA INCORPORATED

POLYMERICA PRODUCT DATA

MasterShield IEB Industrial Epoxy Binder

PRODUCT PRESENTATION

MasterShield IEB is a multipurpose epoxy binder that can be used as a primer/sealer for concrete floors, as a binder for silica-filled troweled surfacers, and as a body coat for colored quartz or flake-filled floors.

MasterShield IEB is available in colors, but is not intended to be used as a final coat. Polymerica has a wide variety of seal coat products from which to choose which will offer resistance to chemical attack, ultraviolet light, and abrasion, and are available in matte, orange peel, gloss, and light-dissipating finishes.

IEB-LT is available for positive curing at temperatures from 32°F to 55°F.

PRODUCT FEATURES

- ➔ multi-purpose, can be used as a primer, binder, or body coat
- ➔ does not contain solvent or water
- ➔ odorless - can be used in occupied facilities
- ➔ self-extinguishing in thin films
- ➔ excellent clarity and color retention
- ➔ wide range of colors
- ➔ materials comply with USDA requirements for use in federally inspected meat and poultry plants.
- ➔ approved by Agricultural Canada Food Production and Inspection Branch for use in registered establishments

PACKAGING

Unit Size	Part A	Part B	Weight*
1-1/4 gallon	1 x 1	1 x 1/4	12.5 lbs.
5 gallons	4 x 1	1 x 1	48 lbs.
25 gallons	4 x 5	1 x 5	238 lbs.

*approximate shipping weight

COVERAGE

200 square feet per gallon yields 8.0 mils DFT. Two coats are recommended for general service. 1-1/4 gallons of mixed **IEB** blended with 100 pounds of **TMF** will cover 37 square feet at 1/4" thickness.

INSTALLATION GUIDELINES

Preparation: Surface must be properly prepared and if required, primed. Prime with **MasterSpec EPS** for most broadcast and coating systems. Sand before coating or observe **EPS** recoat window. Consult **POLYMERICA** Bulletin SP-C for details. For most surfacers, primer should be **IEP**. Mix and apply surfacer while **IEP** is still wet.

Mixing: Observe all precautions on MSDS and label when using this product. Premix both components with a low-speed drill for at least two (2) minutes, then mix 4A : 1B by volume for an additional two minutes.

Application: Pour onto surface in ribbons, distribute product with notched squeegee, and lightly backroll with good quality medium nap roller to remove squeegee marks. Do not puddle. Tight areas may be applied with a natural bristle brush.

Cure: Re-coat in 12 hours at 70°F. Shorter re-coat times affect gloss. Foot traffic in 6 - 10 hours. Full chemical cure in 5 days.

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 and all MasterShield colors (see color card)
Gloss: 60°:	100
Weight/gallon:	9.0 lbs., mixed
Solids Content:	100%
Mix Ratio:	4A : 1B by volume
Pot Life:	20 min. @ 70°F (1-1/4 gallon kit) Low-Temp 8 - 10 min. @70°F
Viscosity:	950 cps. mixed approx.

PERFORMANCE PROPERTIES

Tensile Strength: (ASTM D-638)	8,500 psi.
Elongation (ASTM D-638)	5.5%
Adhesion: (ASTM D-4541) to metal:	2,500 psi.
to concrete:	350 psi. (concrete fails)
Hardness: (ASTM D-2240)	80 (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.

MasterShield IEB 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-30%	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-20%	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 75°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.

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800.762.1678
www.polymerica.com

