



# POLYMERICA

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# INCORPORATED

## POLYMERICA PRODUCT DATA

### MasterShield WEC-LG Waterborne Epoxy Coating Low Gloss

#### PRODUCT PRESENTATION

**MasterShield WEC-LG** is a two-component water phase epoxy that provides a breathable, high gloss, color coat over primed concrete, tile or wood surfaces. **WEC-LG** is available in grey and white and can be applied directly over other properly prepared polymer surfaces.

**WEC-LG** cures quickly under standard environmental conditions, providing high abrasion resistance and moderate resistance to chemical and solvent exposure.

#### PRODUCT FEATURES

- ➔ Excellent color stability.
- ➔ Excellent abrasion and solvent resistance.
- ➔ Excellent adhesion to properly prepared concrete or wood.
- ➔ Low odor, can be applied in occupied facilities.
- ➔ Meets low V.O.C. requirements.
- ➔ Easy application, easy water clean up.

#### COVERAGE

300 square feet per gallon (5 mils wet) yields 2.5 DFT. Two coats are recommended for general service as a coating.

#### PACKAGING

| Unit Size    | Part A | : | Part B  | Weight*  |
|--------------|--------|---|---------|----------|
| 1 1/4 gallon | 1 x 1  | : | 1 x 1/4 | 19 lbs.  |
| 5 gallon     | 1 x 4  | : | 1 x 1   | 71 lbs.  |
| 25 gallon    | 4 x 5  | : | 1 x 5   | 351 lbs. |

\*approximate shipping weight

#### INSTALLATION GUIDELINES

**Preparation:** Surface must be properly prepared and primed. Consult **POLYMERICA** Bulletin SP-C for full details. Do not use when application surface temperature is below 55°F or over 85°F or when RH is over 70%. Prime concrete or wood with **WEP** before coating.

**Mixing:** Observe all precautions on MSDS and label when using this product. Mix 4A : 1B by volume with low speed drill for at least two (2) minutes. Allow product to induct 15 to 45 minutes prior to application. Do not mix more material than can be used in 2 hours.

**Application:** For best results, apply the product from a roller tray. Apply product evenly with a 3/8" solvent resistant roller cover. Product can be sprayed. Reduce 8 oz. water/mixed gallon if needed.

**Cure:** Longer induction periods reduce cure time. Film is tack free in 3 hours at 70°F, 50% RH. High humidity or low temperature will retard cure. Recoat 4-24 hours, full cure 72 hours at 70°F, 50% RH. Full chemical cure at 70°F, 50% RH.

**Clean-Up:** Clean skin with soap and water. Equipment can be cleaned with soap and water if material has not hardened.

## PHYSICAL PROPERTIES

|                        |  |
|------------------------|--|
| <b>Composition:</b>    | Two-component, accelerated amine adduct cured epoxy novolac cured epoxy. |
| <b>Color:</b>          | White, Grey, other colors available with restrictions.                   |
| <b>Gloss: 60°:</b>     | 0-30   |
| <b>Weight/gallon:</b>  | 13.45, mixed   |
| <b>Solids Content:</b> | 51 ± 1% by volume  |
| <b>Mix Ratio:</b>      | 4A : 1B by volume  |
| <b>Pot Life:</b>       | 1 hour @ 70°F, 50% RH  |
| <b>Viscosity:</b>      | 8000-9000 cps, mixed approx.   |
| <b>V.O.C.:</b>         | 1.5 #/gal, 180 gm/liter  |

## PERFORMANCE PROPERTIES

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Adhesion</b>             |                                   |
| <b>to concrete:</b>         | 350 psi                           |
| (ASTM D-4541)               | (concrete fails)                  |
| <b>Hardness:</b>            | SHORE D, 74-78                    |
| (ASTM D-2240)               |                                   |
| <b>Abrasion Resistance:</b> | 45-50 mg loss (CS-17              |
| (ASTM D-4060)               | wheel, 1 kg load,<br>1000 cycles) |
| <b>Service Temperature:</b> | 185° F (dry heat)                 |

## SAFETY

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

**MasterShield WEC-LG** is a two component epoxy system, Part A contains epoxy resins. Part B contains polyamine adduct. Workers should wear gloves and goggles when mixing or applying product. Clean up with soap and warm water. Be sure to follow all label and MSDS cautions.

## CHEMICAL RESISTANCE

| <u>Reagent</u>            | <u>Rating</u> |
|---------------------------|---------------|
| Acetic Acid-5%.....       | L             |
| Acetone.....              | L             |
| Bleach.....               | L             |
| Citric Acid-10%.....      | R             |
| Crude Oil.....            | R             |
| Diesel Fuel.....          | R             |
| Gasoline.....             | R             |
| Skydrol.....              | R             |
| Sodium Hydroxide-50%..... | R             |
| Sulfuric Acid-30%.....    | L             |
| Toluene.....              | L             |
| Vinegar.....              | L             |

R - No effect.

L - Limited, Stain or softening.

Test method ASTM D-1380 24 hour spot test at 75°F. The data is intended as a guide only. A sample should be tested under actual or simulated use conditions. This coating is not recommended for immersion or severe chemical service.

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 product 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 the 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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