

## LOW-VISCOSITY, LOW SURFACE TENSION, 100% SOLIDS EPOXY

### DESCRIPTION

EP100-SEAL HM is a highly penetrating, two-component epoxy healer/sealer.

### APPLICATIONS

EP100-SEAL HM is designed to prolong the life of concrete by sealing cracks against moisture and chloride ion intrusion. Specific applications include:

- Bridge decks
- Parking decks
- Concrete floors
- Roadways
- Airport runways/taxiways
- Columns & beams in splash zones
- Consolidation of porous & dusting surfaces
- Primer or pre-treatment for subsequent epoxy or urethane deck coatings

### ADVANTAGES

- Excellent bond strength
- Moisture insensitive
- High early strength
- Easy to mix - 2:1 ratio
- 100% solids
- Low viscosity
- High tensile strength providing for superior retention of aggregates
- Solvent-free
- Low odor
- High modulus
- Designed for automated pump or hand mix application

### COMPLIANCES

- ASTM C881 (Type I, II, IV, V. Grade 1. Class C.)
- VOC compliant, 0 g/L
- Made in America

### PACKAGING

3-gallon unit

- Component A: (2) 1-gallon cans
- Component B: (1) 1-gallon can

15-gallon unit

- Component A: (2) 5-gallon pails
- Component B: (1) 5-gallon pail

165-gallon unit

- Component A: (2) 55-gallon drums
- Component B: (1) 55-gallon drum

750-gallon unit

- Component A: (2) 250-gallon totes
- Component B: (1) 250-gallon tote

**Appearance of Components:** A - Clear, B - Amber

**Shelf Life:** 2 years in original unopened container

**Storage:** 50°F to 95°F in dry and dark conditions

**Temperature Considerations: IMPORTANT!** Epoxy resins are temperature sensitive and care should be taken to condition

all components to between 65°F to 95°F for a minimum of 24 hrs. prior to mixing and placement. Temperatures colder than stated range increase viscosity of resins and inhibit mixing and flow of materials. Temperatures warmer than stated range decrease viscosity of resins, hasten the cure and reduce the working time. Mixing and curing at less than ideal temperatures, <60°F or >95°F, will require special considerations.

### COVERAGE

Minimum Coverage Rates:

	Epoxy	Aggregate (#12/20)
Tined	1 gallon/60-80 sq. ft.	4-8 lbs./sq. yd.
Smooth	1 gallon/100-150 sq. ft.	4-8 lbs./sq. yd.

### CURE TIME

Use the table below to determine minimum cure times based on the temperature of the materials and the substrate.

	Average Temperature of Materials & Substrate (°F)					
Cure Temp	60-64	65-69	70-74	75-79	80-84	85+
Cure Time	10 hrs	9 hrs	7 hrs	6 hrs	5.5 hrs	4.5 hrs

\*Set times are merely averages, site conditions will dictate actual cure response for open to traffic time.

### INSTALLATION

**Surface Preparation:** Clean surface by shot-blasting or sandblasting to remove all contaminants and open surface and cracks. Remove dust and debris by blowing off with oil-free compressed air.

**Mixing:** Mechanically mix Component A with Component B 2:1 by volume with Jiffy type mixer and low-speed variable drill at 300 rpm for a minimum of 3 minutes. Mix only the quantity that can be used within its gel time. BULK: For bulk mixing, a positive displacement pump, incorporating a static mixing wand and meter, is recommended.

**Placement:** Apply neat EP100-SEAL HM by pouring or spraying on the surface. Distribute material evenly with a squeegee, roller or broom, maintaining a liquid head over cracks until refusal. Remove all excess material with squeegee or broom. Broadcast select aggregate to properly cover liquid resin. The aggregate should be moisture free and free of dirt, clay, etc. After initial cure of first course, remove excess aggregate.

When used as primer or pre-treatment prior to overlay, consult E-Chem representative.

### LIMITATIONS

- For professional use only
- Do not thin with solvents
- Compressed air equipment must have an oil/air separator.
- Minimum age of concrete must be 28 days before applying as an overlay.
- Maximum of one flood coat application.

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- EP100-SEAL HM is a vapor barrier after curing.
- Substrate temperatures must be 50°F and rising prior to installation; 50°F must be maintained minimum of 12 hours post installation or meet curing guidelines stated above for proper cure.
- Consult E-Chem representative when mixing or placing outside of the temperature recommendations listed.

#### **CLEAN UP**

**EQUIPMENT:** Uncured material can be removed with C-CLEAN100 or approved solvent. Cured material can only be removed mechanically.

**MATERIAL:** Collect with absorbent material. Flush area with water. Dispose of in accordance with local, state and federal disposal regulations.

#### **CAUTIONS**

##### **READ SDS PRIOR TO USING PRODUCT!**

- Component A: Irritant
- Component B: Corrosive
- Product is a strong sensitizer. Use of safety goggles and chemical resistant gloves are recommended.
- Use in a well-ventilated area and avoid breathing vapors
- Use of a NIOSH/MSHA organic vapor respirator is recommended if ventilation is inadequate.
- Avoid overspray or mist conditions when applied by sprayer
- Avoid skin contact

#### **FIRST AID**

**EYE CONTACT:** Flush immediately with water for at least 15 minutes. Contact physician immediately.

**RESPIRATORY CONTACT:** Remove person to fresh air.

**SKIN CONTACT:** Remove any contaminated clothing.

Remove epoxy immediately with a dry cloth or paper towel. Solvents should not be used as they carry the irritant into the skin. Wash skin thoroughly with soap and water.

**IF INGESTED:** Do not induce vomiting. If swallowed give water to drink. Seek medical treatment immediately.

**GENERAL:** Remove contaminated soaked clothing immediately. In the event of persistent symptoms receive medical treatment.

**CURED EPOXY RESINS ARE INNOCUOUS.**

#### **WARRANTY**

This product is warranted and guaranteed to be of good quality. Manufacturer, as its sole and exclusive liability hereunder, will replace material if proved defective. This warranty and guarantee are expressly in lieu of all others, express or implied, including any implied warranty of merchantability or fitness for a particular purpose and may not be extended by representatives or any persons, written sales information, or drawing in any manner whatsoever. While the manufacturer recommends uses for the product based on tests believed reliable, no warranties, express or implied, or guarantees can be given as to particular methods of use or application, nor can performance be warranted, expressly or impliedly, or guaranteed under special conditions. Distributors, salespersons or company representatives are not authorized to extend or vary any warranties or guarantees beyond those outlined herein, nor may the manufacturer's or seller's limitation of liability be waived or altered in any manner whatsoever.