

MARK-155 E-Sealer

Epoxy Primer

OVERVIEW

Backed by a long-term warranty, **MARK-155 E-SEALER Epoxy Primer** Parking Preservation Solutions is a concrete protection system that sets the industry standard for performance accountability by ensuring maximum service life for critical parking structure assets. Through the combination of advanced material technology, best-practices installation methods and performance accountability, the system results in improved protection outcomes and life-cycle cost savings for parking garage owners.

MARK-155 E-SEALER Epoxy Primer is a two-component, 100% solids epoxy primer. It is designed to provide a high intercoat adhesion between the **MARK-155 E-SEALER Epoxy Primer** system and properly prepared concrete surfaces.

FEATURES

- Fast curing primer allowing for efficient installation
- Excellent adhesion to concrete & metal after proper surface cleaning and preparation
- Excellent wetting on substrate
- Minimum application temperature as low as 45°F (7°C)

PRODUCT CHARACTERISTICS

- Color: unpigmented
- Mix Ratio by Volume: 2:1
- Shelf Life: 24 months

Applications

MARK-155 E-SEALER Epoxy Primer is used as a long-lasting primer for epoxy, polyurethane, polyurea and multi-polymer coatings in Parking Garage applications.

Product Characteristics

	Part A	Part B
Appearance	Clear, Pale Liquid	Slight Yellow Liquid
Viscosity at 77°F (25°C)	800-1000 cps	900-1300 cps
Solids Content	100%	100%
Specific Gravity	1.12 g/mL	1.03 g/mL
Packaging	10 gal (37.9 L)	5 gal (18.9 L)
Adhesion to Concrete	≥ 435 psi (cohesive failure)	
Wet Mills (mm)	10-15 mils (0.25-0.38 mm) or as needed to meet Performance Specification	
Coverage Rate ¹	105 - 160 sq.ft. per gallon (2.55 – 3.88 m ² per L) or as needed to meet Performance Specification	

1. Coverage may vary with the application technique used. Actual coverage rate and mil thickness dependant upon substrate porosity and surface profile.

Mixing and Handling

MARK-155 E-SEALER must be mixed in the following ratios:

	MARK-155 E-SEALER Epoxy Primer Part A	MARK-155 E-SEALER Epoxy Primer Part B
Parts by Volume	100	50

Accurate proportioning and thorough mixing are essential to achieve full performance properties. Manually mix the resin and hardener components together for approximately 4 minutes while making sure to scrape the sides, bottom, and corners of the mixing container.

For large applications, it is a good practice to mix and use several small batches rather than one large batch.

The resin and hardeners used in this system will readily react with each other at ambient temperatures. This reaction is exothermic and, depending on the mass, can result in a significant temperature rise or fire. The utmost care must be taken to avoid inadvertent mixing of the system components. Refer to the Safety and Handling section for additional information.

Curing Characteristics & Mechanical Properties of Cured System^{1,2}

@ 77°F (25°C)

Initial Cure:	2 hours
Pot Life:	10-12 minutes
Time To Recoat:	
Minimum	1.5 hours
Maximum	24 hours
Tensile Strength	>4500 psi
Hardness (Shore D)	D80
Bond Strength	
Concrete	>435 psi (concrete failure)
Steel	>700 psi

1. Curing time is temperature dependent. It is not humidity or thickness dependent.
2. If maximum recoat time is exceeded, Xylene wipe and reprime surface before proceeding with installation.

Safety and Handling

Olin POLY-CARB provides its customers with a product specific Material Safety Data Sheet (MSDS) or Safety Data Sheet (SDS) to cover potential health effects, safe handling, storage, use and disposal information. Olin strongly encourages its customers to review the MSDS or SDS on its products and other materials prior to their use.

The reaction between resins and hardeners is exothermic and, depending on the mass and starting temperature, can result in significant temperature rise, smoke generation or fire. The epoxy/amine chemical reaction is self sustaining and cannot be easily stopped. Therefore, the utmost care should be taken to avoid mixing excessive quantities of resin and hardeners and then leaving them unattended. In the event a large quantity of material is inadvertently mixed, it is advised that the mass of the mixed resin system be reduced and the surface area increased by pouring it into multiple containers or a large shallow pan in order to reduce the potential temperature rise.

Packaging, Storage and Shelf Life

MARK-155 E-SEALER Epoxy Primer is supplied in 5 gallon plastic containers. The resin and hardener should retain its chemical properties for at least 24 months when stored between 68°F (20°C) and 95°F (35°C) in a dry place in its original closed packaging.

As with many liquid epoxy resins, **MARK-155 E-SEALER Epoxy Primer** may crystallize during storage. The potential for crystallization can be minimized by storing the resin in a controlled temperature environment between 68°F (20°C) and 95°F (35°C). Crystallized resin can be reconstituted by heating to 140°F (60°C).

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