

MARK-170.2 Epoxy Finish Coat

Protective Finish Coat

OVERVIEW

MARK-170.2 Epoxy Finish Coat 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 garage owners.

MARK-170.2 Epoxy Finish Coat is a two-component, 100% solids, hard epoxy finish coat. It is designed to provide safe, sustainable finish coat protection that delivers exceptional aggregate retention, abrasion- and chemical-resistant properties to decks experiencing high traffic volume.

FEATURES

- Withstands heavy traffic and demands of snow removal operations*
- Superior protection of wear coat aggregate thus, long-term slip/skid resistance
- 100% solids – no VOC's
- Minimum application temperature as low as 50°F (10°C)

PRODUCT CHARACTERISTICS

- Available in Dolphin Grey, Battleship Grey and Black
- Mix Ratio by Volume: 2:1
- Shelf Life: 24 months

Applications

MARK-170.2 Epoxy Finish Coat is used as a durable, protective finish coat in parking garage applications where superior resistance to abrasion and wear is required based on expected traffic patterns or snow removal requirements.

Product Characteristics

	Part A	Part B
Appearance	Grey Liquid	Amber Liquid
Viscosity at 77°F (25°C)	1000-1400 cps	1200-1600 cps
Solids Content	100%	100%
Specific Gravity	1.35 g/mL	0.97 g/mL
Packaging	10 gal (37.9 L)	5 gal (18.9 L)
Wet Mills (mm)	20-35 mils (0.51-0.89 mm) or as needed to meet Performance Specification	
Coverage Rate ¹	46 - 80 sq.ft. per gallon (1.13 – 1.96 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 aggregate size and type.

* Requires strict adherence to **MARK-170.2** Manual recommendations

Mixing and Handling

MARK-170.2 Epoxy Finish Coat must be mixed in the following ratios:

	MARK-170.2 Epoxy Finish Coat Part A	MARK-170.2 Epoxy Finish Coat 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 System¹

@ 77°F (25°C)

Initial Cure:	4 - 5 hours
Pot Life:	25-35 minutes
Time To Re-Open To Traffic:	
Minimum	8 hours
Tensile Strength	>4000 psi
Abrasion Resistance Wear Index	< 80 mg (ASTM C-501), CS-17 wheel, 1000 cycles, 1kg
Hardness (Shore D)	D70

1. Curing time is temperature dependent. It is not humidity or thickness d

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.

MARK-170.2 Epoxy Finish Coat 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.

Packaging, Storage and Shelf Life

MARK-170.2 Epoxy Finish Coat 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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