

MARK-170.2
HIGH-FLEX TOPCOAT (HFTC)

OVERVIEW

MARK-170.2 FLEXODECK 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-170.2 HIGH-FLEX TOPCOAT is a two-component, fast setting, rapid curing, solvent-free, and 100% solids polyurea. It is designed to provide a flexible, yet strong waterproofing and skid resistant layer. By tenaciously holding aggregate in the system, **MARK-170.2 HFTC** maintains long-term slip resistance for parking garages as required by the Occupational Safety & Health Association (OSHA) and compliance with Americans with Disabilities Act Accessibility Guidelines (ADAAG).

FEATURES

- Withstands heavy traffic and maintains skid resistant properties for extended time
- Due to inherent flexibility, withstands mild structural and thermal deck movements
- Variety of textures and non-skid qualities available through unique aggregate selection
- Low temperature curing as low as 35°F (2°C)
- Monolithic, durable membrane across wide temperature range

PRODUCT CHARACTERISTICS

- Color: off-white to light grey
- Mix Ratio by Volume: 5:1
- Shelf Life: 12 months

Applications

MARK-170.2 HIGH-FLEX TOPCOAT is a cold-applied, parking deck coating designed as a durable, yet flexible aggregate retention surface for superior and long-lasting skid resistance properties in Parking Garage applications. **MARK-170.2 HFTC** is specially designed for parking structure may require higher flexibility to accommodate the movement at the slab joint, such as post-tensioned structure.

Product Characteristics

	Part A	Part B
Appearance	Off-white Liquid	Black Liquid
Viscosity at 77°F (24°C)	4000 cps	25 – 60 cps
Solids Content	100%	100%
Specific Gravity	1.15 g/mL	1.07 g/mL
Packaging	4.3 gal (16.3 L)	0.9 gal (3.3 L)
Wet Mils (mm)	15-25 mils (0.38-0.64 mm) or as needed to meet Performance Specification	
Coverage Rate ¹	60 - 100 sq.ft. per gallon (1.47 – 2.45 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-170.2 HIGH-FLEX TOPCOAT must be mixed in the following ratios:

	MARK-170.2 HIGH-FLEX TOPCOAT Polyisocyanate Resin	MARK-170.2 HIGH-FLEX TOPCOAT Hardener
Parts by Volume	100	20

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 – 3 hours	
Pot Life:	15-20 minutes	ASTM C881
Time To Recoat:		
Minimum	2.5 hours	
Maximum	24 hours	
Tensile Strength	2,300 psi	ASTM D412
Elongation %	550%	ASTM D412
Hardness (Shore A)	85	ASTM D2240
Abrasion Resistance	100 mg	ASTM D4060, CS-17, 1000 cycles, 1 Kg

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-170.2 HIGH-FLEX TOPCOAT is supplied in 6 gallon plastic containers and 1 gallon steel cans. The resin and hardener should retain its chemical properties for at least 12 months when stored between 68°F (20°C) and 95°F (35°C) in a dry place in its original closed packaging.

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