

PRODUCT DATA

PACKAGING

5 gal pails

COVERAGES

Coverage rates will vary depending on use and application. Please refer to the desired System Specification for coverage rates.

COLOR

9 Standard Colors & Custom Colors Available

SHELF LIFE

The shelf life is two (2) years from the date of manufacture in the original, unopened container if properly stored.

TECHNICAL DATA

VOC CONTENT

<50 g/L

SOLIDS BY VOLUME

39%

SOLIDS BY WEIGHT

49%

VISCOSITY at 77°F

85 KU



PRODUCT DESCRIPTION

MK-40 Mer-Ko Seal is a high-performance topcoat that has excellent resistance to weather and dries quickly.

USES

MK-40 is designed to be used as the topcoat for the Weather Deck & Shur Deck Systems. It can also be used for resealing existing acrylic coated deck systems.

ADVANTAGES

- Easy application and water clean-up, prior to drying
- Resists degradation from UV, ozone and weathering
- Outstanding long-term performance
- Complies with regional air quality regulations
- Good chemical resistance
- A multitude of custom color capabilities

INSPECTION

Substrate must be clean, dry and free of grease, paint, oil, dust, curing agents or any foreign material that will prevent proper adhesion. Over previously coated systems, surface must be structurally sound with no peeling or flaking. Over sheet metal, metal should be bonderized, clean and free of rust. If galvanized metal is used, it must be free of oil and abraded.

MOISTURE

All concrete should be tested for moisture before applying a seamless coating. If moisture emissions exceed 5 lbs/1000 square feet (ASTM F1869) or if the relative humidity (RH) exceeds 75% (ASTM F2170), contact the manufacturer before application.

PREPARATION

For concrete, the surface should be at least 2500 psi and have cured for a minimum of 28 days. Prepare concrete to a profile equal to CSP 2-3. You may mechanically profile by grinding or shot blasting. The concrete should be porous and be able to absorb water. Prior to starting work, test existing concrete slab for efflorescence, moisture and hydrostatic pressure. Vacuum surface entirely and ensure that any dust or contaminants are removed, as these will deter adhesion. When applying over concrete, MK-50 WB Epoxy must be used prior to applying MK-40. Refer to the MK-50 Product Specification Sheet for additional information.

As a topcoat for Mer-Ko Systems, apply directly over the textured surface. If texture has been left for more than 72 hours or it has become dirty, clean as needed prior to application of MK-40. Over previously coated acrylic deck coatings, prepare surface by scrubbing with a nylogrit brush on a floor buffer and follow by powerwashing. A compatibility test should be done. Over sheet metal, the metal should be clean, etched and wire brushed, if needed, to allow product to bond. Remove any mildew or algae using 50/50 water and household bleach. Rinse thoroughly.

PRIMER REQUIREMENTS

Over concrete surfaces or previously coated acrylic deck coatings, prime using MK-50 Water-Based Epoxy for best adhesion.

MIXING

Use a mechanical mixer at a slow speed, until a homogeneous mixture and color is obtained. For color consistency, box all material to be used on the same project. Use care not to allow the entrapment of air into the mixture.

THINNING

The material may be thinned by adding up to a maximum of one quart of water per gallon, for the first coat. For best results, it is not recommended to thin the final coat.

COVERAGE

Will vary depending on the surface. Up to 400 square feet per gallon on a smooth surface and between 125-300 square feet per gallon on a rough surface.

APPLICATION

Allow the primer or texture to dry completely before applying the MK-40. This product can be sprayed, brushed or rolled. If rolled, neatly cut-in all edges with a brush and roll the center using a 3/8 inch to 3/4 inch nap, good quality roller cover. Be sure to spread evenly in a pattern rolling in both directions. Apply the MK-40 thinly using adequate pressure to avoid filling in textured surfaces. In general, the product will perform better if applied in two thin coats.

Chemical Resistance

Muriatic Acid (31.5% H CL)	3s
Sulfuric Acid (50% H ₂ SO ₄)	4
Sulfuric Acid (93% H ₂ SO ₄)	1
Nitric Acid (10% HNO ₃)	3
Sodium Hydroxide (50% NaOH)	5
Isopropyl Alcohol (99%)	2
Bleach (sodium hypochlorite)	5
Vinegar (3-5% acetic acid)	5
Transmission Fluid	5
Gasoline	4
Brake Fluid	5
409 Surface Cleaner	5
Pine Sol Solution	5
Blood & Body Fluids	5
Iodine Solution	5
Mustard	5
Ketchup	5
Red Wine	5
Acetone	1
Methyl Ethyl Ketone (MEK)	1
Xylene	1
Ethanol	4
Methanol	4

Key:

5 = Best (no effect)

4 = Softens (recovers)

3 = Softens (no recovery)

2 = Blistered (no recovery)

1 = Worst Destroyed

s = With Stain

* Contact time > 5hrs = 1



DRY TIME

For best results, allow MK-40 4-6 hours drying time at 70 degrees before permitting light pedestrian traffic or additional coats are applied. Allow 24 hours to cure before heavy traffic is permitted. Allow 48 hours before heavy objects are placed on the surface and allow 72 hours for vehicular traffic. Allow 5 days prior to any abrasion or chemical exposure.

CLEAN UP

Uncured material can be removed with soap and warm water. If cured, material can only be removed mechanically or with an environmentally-safe solvent.

CAUTION & LIMITATIONS

- This product is designed for professional use only.
- The substrate surface must be structurally sound, clean, dry and free of laitance, dirt, dust, oil, grease, paint or other contaminants at the time of material application.
- Be sure to do adequate surface preparation.
- Substrate and ambient temperature must be above 55°F and below 90°F during and for 24 hours following the application.
- Intended for use over Mer-Ko's cementitious, acrylic water-based products. Not suitable for use over epoxy, urethane, silicone or similar materials.
- Do not apply if rain is forecasted within 48 hours or heavy dew within 24 hours.
- Skid resistant additives are available.
- Do not allow MK-40 to freeze.

STORAGE & HANDLING

Store all materials off the ground in a dry environment at temperatures between 50°F and 90°F and not in direct sunlight. All materials should be stored in compliance with local fire and safety requirements. Always wear proper safety equipment, including particle mask, eye protection and gloves when mixing and/or applying these products.

HEALTH PRECAUTIONS

Inhalation of vapor or mist can cause headache, nausea, irritation of nose, throat and lungs. Prolonged or repeated skin contact can cause slight skin irritation. Be careful not to get on skin, clothes or in eyes. Gloves and respirators are strongly recommended. Avoid breathing vapors. If splashed in the eye, flush with warm water and contact a physician if blurring persists.

DISCLAIMER

Purchaser's sole and exclusive remedy against the manufacturer of Mer-Ko, shall be limited solely to the replacement of any defective material or a payment by the manufacturer in an amount equal to the cost of the original material.