

Mer-Thane 310 Topcoat

Aliphatic Urethane Topcoat

PRODUCT DESCRIPTION

Mer-Thane 310 Topcoat is a single-component, polyester, aliphatic, liquid-applied, moisture cured, urethane topcoat designed for application over waterproofing membrane systems. This product meets the most stringent air quality standards in jurisdictions such as Southern California and the New England states.

CHARACTERISTICS

- Durable with excellent weatherability
- Seamless waterproofing membrane
- UV resistant for gloss retention
- Durable pedestrian or vehicular traffic coating
- Approved for use in SCAQMD regions

CAUTIONS & LIMITATIONS

- The substrate surface must be structurally sound, clean, dry and free of dirt, dust, oil, grease, paint or other contaminants at the time of material application.
- Do not install in damp weather or when rain is expected within 24 hours.
- Application in direct sunlight during high temperatures may adversely affect aesthetics.
- Not designed for heavy steel wheeled traffic.
- Not suitable for applications where chained or studded tires may be used.
- Not suitable for below-grade, split slab, or slab-on-grade without on-grade vapor barrier.
- Not for use on sandwich slabs without a vapor barrier or with insulation, slabs over unvented metal pans, suspended pool decks, swimming pools, magnesite, lightweight concrete, asphalt surfaces or asphalt overlays.
- Concrete substrates must have a minimum compressive strength of 3,000 psi tested by "point loading" technique.
- The moisture content of the substrate should be checked and approved by a qualified professional prior to installation.
- When contemplating a deck installation over an unheated enclosed space (e.g., garage, etc.) provision must be made to vent the area.
- Containers that have been opened should be used as soon as possible. The product is moisture-reactive and will gel or set up when exposed to moisture in the atmosphere. A polyethylene sheet must be used as a protective blanketing prior to re-sealing the lid on a partially used container. Keep the lid tightly sealed when the material is not in use.
- Before using Mer-Thane products, read all container labels, MSDS, application instructions and storage and handling information carefully. Applicators should wear an approved respirator, protective glasses, clothing and gloves. Contains isocyanates, avoid contact of material with skin or eyes and avoid breathing vapors. Mix and apply materials in well ventilated areas and observe normal safety precautions. Mer-Thane materials are classified as corrosive material and can cause irritation in prolonged exposure. Wash skin thoroughly with soap and water if product(s) contact skin. Consult the Material Safety Data Sheet for additional information and precautions.
- Protect all finished surfaces that are not intended to receive the deck coating system materials.

TECHNICAL DATA

Coverage Rate	500 ft ² /5 gallons (Yield 12 mils DFT)
DFT per Coat, excluding aggregate	12 ± 2 mil (ASTM C109)
Hardness	90-100 (ASTM D2240, Shore A)
Tear Resistance	450-550 pli (ASTM D624, Die C)
Tensile Strength	3,100-3,900 psi (ASTM D412)
Elongation	175-225%
Specific Gravity	1.31
Total Solids by Weight	76% (ASTM D2369)
Total Solids by Volume	73% (ASTM D2697)
Viscosity	1,500-2,500 cps at 75°F (24°C) RH 50%
VOC	0.82 lbs/gallon (98 g/L) (ASTM D2369-81)

- Use extra caution in protecting surfaces not to be coated when using spray application methods. Windy conditions or overspray can damage surrounding surfaces.

COLOR

Mer-Thane 310 Topcoat is available in 7 standard colors. Consult the Color Selection Guide for additional details.

PACKAGING

5 gallon (18.9 liter) pail.

INSTALLATION CONDITIONS

The Mer-Thane 310 Topcoat should be installed when the surface and ambient temperatures are above 50°F (10°C) and below 100°F (38°C). Temperature should be at least 5°F above the dewpoint. Do not install during damp weather or when rain is expected within 24 hours. Mer-Thane 310 Topcoat material is very sensitive to heat and moisture. Higher temperatures and/or high humidity will significantly accelerate the cure time. Use caution in thickness of application. Low temperature and/or low humidity will extend the cure time.

SUBSTRATE PREPARATION

The substrate surface must be clean, dry and free of dust and any other contaminants at the time of material application. A minimum finished deck slope of 2% (1/4 unit vertical in 12 units horizontal) is required for proper drainage. Surface imperfections, if left untreated, will be noticeable in the finished application.

Primer Horizontal Surface

When necessary apply Mer-Thane 300SC or 300 Primer to the properly prepared surface using a brush or phenolic resin core roller at 1 gallon/300 ft² (3.8 L/27.9 m²). Primer must dry tack free before applying the 310 Topcoat. See the Mer-Thane 300SF Technical Application Guide for further information.

MIXING

Mer-Thane 310 Topcoat and Mer-Thane Pigment Paste should be thoroughly mixed individually prior to combining to ensure homogeneous material and color. While mechanically mixing the topcoat using a mechanical mixer at slow speed, add 1 quart of Pigment Paste and thoroughly blend the components until a uniform color is obtained. Then, pour a small amount of the topcoat into the pigment paste container and scrape the sides thoroughly. Pour back into the Topcoat material and again thoroughly blend the combined components, until a uniform color is obtained. Use care when mixing to avoid air bubbles.

APPLICATION

Apply Mer-Thane 310 Topcoat to the properly prepared perimeter flashing and horizontal deck areas using a squeegee and/or a solvent resistant, phenolic core roller. Apply evenly over the entire deck surface at a rate of 1 gallon per 133 ft² (3.8 L per 12.35 m²) 16 wet mils. Apply with continuous coverage to minimize lines and/or streaking, use extra care not to entrain air into the material. Allow Mer-Thane 310 Topcoat to cure a minimum of 24 hours and a maximum of 48 hours at 70°F (21°C) RH 50% before proceeding with any additional coats to ensure proper adhesion. Additional coats must be applied within 48 hours. If more than 48 hours elapses between coats, the surface must be primed.

Sloped or pitched surfaces may require additional applications to achieve the desired thickness. When using a notched squeegee, back rolling may be required to achieve the desired finish. Mer-Thane Catalyst CC can be added to the 310 Topcoat to allow for normal cure time for applications during temperatures between 40°F to 50°F (4.4°C to 10°C) at the rate of 0.2 oz (min) to 0.6 oz (max) per gallon or 1 oz (min) to 3 oz (max) per 5 gallons. Catalyst CC can be used in conjunction with Mer-Thane Topcoat Accelerator for a shortened cure time for rehabilitation or repair projects. Refer to the Mer-Thane Topcoat Accelerator use instructions also provided in the 300SF Technical Application Guides.

Mer-Thane 310 Topcoat, under normal conditions, should be dry to touch within 16 hours. Light traffic service can be introduced 24 hours (minimum) after application. Return to full service after 72 hours.

FIRST AID

EYE CONTACT

Flush eye with water for at least 15 minutes. Get medical attention promptly.

INHALATION

Take person to fresh air. If breathing is difficult, administer oxygen. Get medical attention immediately.

SKIN CONTACT

Wipe off contacted area and wash thoroughly with soap and water. If redness, itching, or a burning sensation develops, seek medical attention immediately.

INGESTION

Do not induce vomiting. Consult physician immediately.

FIRE

Wear self-contained breathing apparatus with full face piece and protective clothing. Use foam, carbon dioxide, dry chemical, and/or halogenated agents.

SPILL OR LEAK

Wear skin, eye, and respiratory protection during cleanup. Soak up material with absorbent and shovel into a chemical waste container. Cover container, and remove from work area.

STORAGE & HANDLING

Store all Mer-Thane materials in a dry environment at temperatures between 40° to 95°F (4.4° to 35°C). All materials should be stored in compliance with local fire and safety requirements. Do not store at high temperatures or in direct sunlight. Do not allow uncured materials to freeze. Store materials in tightly closed original containers, off the ground, on plywood or non-asphaltic insulation board. Avoid moisture contamination. Always wear proper safety equipment, including an approved respirator, eye protection and gloves when mixing and/or applying these products. Do not breathe vapors. Do not keep opened containers in confined spaces.

The material is combustible; the combustion products may be hazardous. Do not expose this material to open flames, sparks, or other sources of ignition. Use proper grounding and bonding procedures during liquid transfer as described in National Fire Protection Association document NFPA77. Consult published OSHA (Occupational Safety and Health Administration) regulations for additional information and compliance information.

SHELF LIFE

The shelf life is one (1) year from the date of manufacture in the original, unopened container when the material is properly stored.

WARRANTY

Limited manufacturer's defect warranty. Contact Mer-Ko Technical Service Department for specific warranty information or www.parexmer-ko.com.

WARNING:

- Read complete Warning information printed on product container prior to use. For medical emergency information, call 1-800-424-9300.
- For more information on handling this product refer to its Material Safety Data Sheet (MSDS). The most current MSDS and Product Data Sheet (PDS) can be found on our website.
- This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about the guidelines for the proper use and application of the covered product(s) under normal environmental and working conditions. Because each project is different, Parex USA, Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

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