



Polyurethane Systems

Waterproof, Vehicular Fire-Resistive Roof & Pedestrian Decking

STANDARD CARE & MAINTENANCE

With proper maintenance, you will extend the life of the Polyurethane system to its maximum potential. The following instructions will provide you with the proper methods of maintenance.

- Establish a normal maintenance schedule for washing the deck surface using a soap and water solution to remove oil, grease, dirt, debris, black tire marks, etc. Use a stiff broom or scrub brush (polypropylene, nylon or horsehair) to remove stubborn contaminants on the decking surface. Tough stains may require power scrubbing or pressure washing/water blasting (no greater than 1,000 psi at the nozzle head). Rinse the deck thoroughly after scrubbing. No solvents should be used to remove contaminants as this may cause damage to the deck surface.
- Cleaning/Disinfecting compounds and cleaning techniques can affect the color, gloss, texture and performance of the system.
- Test all cleaners and cleaning methods in an inconspicuous area to ensure compatibility.

RE-SEALING INSTRUCTIONS

Polyurethane systems should be re-sealed every 5 years for best results, or per the schedule listed on the warranty issued.

Gauges and debris stuck to the deck should be removed and sanded smooth. Remove the residual contaminants. Wash the deck as indicated in the Standard Care & Maintenance instructions. The deck surface must be clean, dry and free of any debris, dirt, dust oil, grease, paint or other contaminants. Patch any stress cracks with Mer-Ko's PUC 1000 polyurethane caulk and allow the cure completely before continuing. Surface imperfections, if left untreated, will be noticeable in the finished application. While material application is in process, all other trade work in the area should be stopped during installation and 72 hours after the application is complete.

APPLICATION INSTRUCTIONS

Before using Mer-Thane products, read all container labels, MSDS's, application instructions and storage and handling information carefully. Applicators should wear an approved respirator, protective glasses, clothing and gloves. 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.

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

Primer Coat

Prime the necessary surfaces to receive the coating, including all flashings and necessary vertical or sloping surfaces, curbs, cants, parapets, etc.

Mixing

The mixing ratio for 300SC is 1 Part A to 1 Part B. The mixing ratio for 300 is 2 Parts A to 1 Part B. Primer Part A and Part B should be thoroughly mixed individually prior to combining them to ensure a homogeneous material. The combined components should be thoroughly mixed using a mechanical mixer at slow speed for 1 to 2 minutes until a uniform color is achieved.

Applying

Apply Mer-Thane Primer using a brush, or phenolic resin core roller at the rate of 1 gallon/300 ft² (3.8 L/27.9 m²). Allow Primer to become tack free prior to applying the coating. Do not mix more material than can be used for the appropriate primer's pot life. Mer-Thane 300G and 310 Topcoats must be applied over the primer application within 24 hours at 70°F (21°C) 50% RH [within 16 hours if the substrate temperature is 85°F (29.4°C) or above].

Topcoat

Refer to the particular topcoat product data sheet for complete mixing and use instructions.

Mixing

Mer-Thane topcoats 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 speeds, 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 Mer-Thane 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. DO NOT entrain air into the mixture. This can result in pinholes, blisters, fish eyes, and shortened pot life. Do not thin or reduce the Mer-Thane topcoat material in any way

Applying

Using a squeegee and/or a solvent resistant, phenolic core roller, apply Mer-Thane Topcoat in the desired color to all perimeter flashing and horizontal deck areas. Use extra care not to entrain air into the material.

Apply evenly over the entire deck surface at 12 mils DFT, at a rate of 1 gallon per 100 ft² (3.8 L per 9.3 m²). Apply with continuous coverage to minimize lines and/or streaking. Allow Mer-Thane 310 Topcoat to cure a minimum of 24 hours and a maximum of 48 hours at 70°F (21°C) 50% RH before proceeding with any additional coats to ensure proper adhesion. Topcoats must be applied within 48 hours. If more than 48 hours elapses between coats, the surface must be re-primed.

For best results, always apply the topcoat to a cool surface in the shade. Do not re-seal Mer-Ko urethane systems if ambient temperature is below 40°F (4.4°C) or above 100°F (38°C), or when precipitation is expected or occurring.

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.

Mer-Thane 300G Topcoat: Allow each coat to cure a minimum of 3-4 hours at 70°F (21°C) and 50% relative humidity. Allow a minimum of 6 hours before permitting light pedestrian traffic.

Additional Topcoat – Optional

Additional topcoats can be applied to provide an exceptionally durable wearing surface. Allow a minimum 24 and a maximum of 48 hours cure time between coats.

Skid Resistance - Optional

Skid resistance can be achieved by broadcasting Mer-Thane RF aggregate onto the surface of the first topcoat application.

While still wet, immediately broadcast Mer-Thane Aggregate RF into the wet material at a rate of 20 lbs/100 ft² (9.1 kg/9.3 m²) or as required to achieve the desired skid resistant finish. Ensure complete and uniform coverage (or to refusal). Allow the topcoat to cure a minimum 16 hours and a maximum of 48 hours at 70°F (21°C) 50% RH before proceeding with succeeding coats to ensure proper adhesion. Then, remove all loose aggregate, dust or debris and immediately proceed with the topcoat application.

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