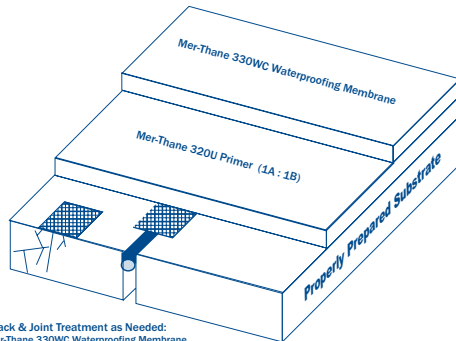




MER-THANE 330WC

Elastomeric Urethane Waterproofing Membrane



Crack & Joint Treatment as Needed:
Mer-Thane 330WC Waterproofing Membrane
→ Mer-Ko Fiber Tape

MINIMUM FINISHED THICKNESS
16 mils (0.4 mm) (DFT)

APPROVALS

- Meets or exceeds performance requirements of ASTM C-836-76 and E-96

MATERIAL STANDARDS

- ASTM D2240
- ASTM D624
- ASTM D412
- ASTM D2697
- ASTM D2369-81

SPECIFICATION CLASSIFICATIONS

- 07 14 16 Cold Fluid-Applied Waterproofing
- 07 11 13 Bituminous Dampproofing
- 07 35 00 Elastomeric Deck Coatings
- 07 14 16 Cold Fluid-Applied Waterproofing
- 07 19 00 Water Repellents
- 07 55 53 Elastomeric Protected Membrane Roofing
- 07 55 56 Fluid-Applied Protected Membrane Roofing

MATERIALS NEEDED

- Mer-Thane 300SC Primer A & B
- Mer-Thane 300 Primer A & B (option)
- Mer-Thane 300WC Waterproofing Membrane

Joint & Crack Treatment
- Mer-Ko Fiber Tape

SUBSTRATES

Mer-Thane 330WC can be installed over properly prepared plywood, concrete, metal and asphalt substrates.

SYSTEM DESCRIPTION

Mer-Thane 330WC is a seamless, cold-liquid applied, water-catalyzed, low odor, urethane polyurea membrane. This high-performance, monolithic membrane provides exceptional adhesion, flexibility, durability and rapid cure. Engineered for use between slabs, in green roof applications, I.R.M.A. roofs with insulation – pavers or balasted, bridges, tunnels, foundations, basements, and planters.

Mer-Thane 330WC installs at a minimum 16 mils (0.4 mm) (DFT) and is designed for use over properly prepared plywood, concrete, metal and asphalt substrates. This versatile membrane offers a wide range of uses and applications.

USES/APPLICATIONS

- Split slab construction
- Green Roofs
- Inverted Roof Membrane Assemblies (IRMA)
- Exterior foundation walls
- Planter boxes
- Between slab waterproofing
- Base slab waterproofing
- Tunnels & highway bridges
- Over occupied spaces

ADVANTAGES

- Easy-to-use
- Quick installation
- Non-gassing
- Can be applied at any thickness
- Appropriate for green concrete
- Excellent adhesion
- Can be installed over new or existing surfaces
- Maintains elastomeric properties at low temperatures
- Elastomeric properties help compensate for normal building movement
- Outstanding long-term durability and performance

COLOR

Mer-Thane 330WC is black.

INSTALLATION CONDITIONS

Mer-Thane 330WC Membrane should be installed when 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 in damp weather or when rain is expected within 24 hours.

Mer-Thane 330WC Membrane is very sensitive to heat and moisture. Higher temperatures and/or high humidity will significantly accelerate the cure time and shorten the pot life. 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. Use No. 26 gage bonderized steel or equivalent flashing around the perimeter; clean and degrease all metal flashings with Xylene or MEK. Do not use copper perimeter flashings. Stainless steel requires scuffing with the use of 100-120 grit sand paper prior to cleaning.

Plywood Surfaces

Plywood substrates shall be a minimum 5/8 inch thick (16 mm) exterior grade, PS 1, exposure one, plywood, complying with and installed in accordance with the 2006 International Building Code and or 2009 International Building Code with all edges blocked. Face plies must be perpendicular to the supports. The plywood must be attached to all

COVERAGES

Note: Coverage rates are approximate only and can vary due to surface conditions, humidity, temperature and installation techniques.

Base Flashing –

Primer Coat..... 300 ft² (27.9 m²)/gallon (3.8 L)
Yield: 5 mil (0.13mm) DFT

Base Flashing –

Reinforced Waterproofing Membrane

Mer-Thane 330WC

Waterproofing Membrane..... 200 ft² (18.6 m²)/5 gallon pail (18.9 L)
Yield: 30 mil (0.76mm) DFT

Horizontal Deck Surface –

Primer Coat..... 300 ft² (27.9 m²)/gallon (3.8 L)
1,500 ft² (139.4 m²)/5 gallon pail (18.9 L)
Yield: 5 mil (0.13mm) DFT

Mer-Thane 330WC

Waterproofing Membrane..... 200 ft² (18.6 m²)/5 gallon pail (18.9 L)
Yield: 30 mil (0.76mm) DFT

blocking and end bearings with countersunk wood screws, screw or ring-shank nails equivalent to 8d common nails, spaced 4 inches (101.6 mm) on center at sheet perimeters and 8 inches (203.2 mm) on center in the field. All plywood substrate joints must be open a minimum of 1/8 inch and clean.

Concrete Surfaces

Concrete surfaces must have a finish equivalent to steel troweling with a fine hair brooming. The surface must be clean, sound and provide a uniform surface free of depressions and ridges. All holes must be cleaned and filled with an appropriate Mer-Ko Underlayment. All high spots must be removed by chipping or grinding. Concrete control joints should coincide with stress relief concentration points, with a maximum spacing of 20 ft (6.1 m). All control joints in the concrete substrate must be clean and open a minimum of 1/8 inch.

Surface imperfections, if left untreated, will be noticeable in the finished application. Concrete not meeting the above requirements should be prepared and properly abraded by shotblasting and/or hydro-blasting (10,000-20,000 psi). If water is used, allow to dry completely. Neat cement sacking is not an acceptable surface preparation.

APPLICATION INSTRUCTIONS

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. Read all instructions before starting application.

1. Primer Coat (optional on new plywood)

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. Allow Primer to become tack free prior to applying the coating. Do not mix more material than can be used for the appropriate primers pot life. Mer-Thane 330WC Waterproofing Membrane must be applied over

PACKAGING

Primer

Mer-Thane 300 or 300SC Primer Part A 5 gallon pail18.9 liter pail
Mer-Thane 300 or 300SC Primer Part B 5 gallon pail18.9 liter pail

Waterproof Membrane

Mer-Thane 330WC 5 gallon pail18.9 liter pail

the primer 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).

2. CRACK & JOINT TREATMENT

Plywood Surfaces

Apply 330WC Waterproofing Membrane reinforced with Mer-Ko Fiber Tape around all pipes and drains.

Stripe coat all plywood board joints and sheet metal flashing termination/transitions by applying 330WC Waterproofing Membrane and reinforce with Mer-Ko 4 inch Fiber Tape embedded for a distance of 2 inches on both sides. Do not mix more material than can be used in 20 minutes. Allow the surface to cure for 6 to 8 hours.

Concrete Surfaces

Stripe coat all concrete control joints, and sheet metal termination/transitions and any other openings with 330WC Waterproofing Membrane and reinforce with Mer-Ko 4 inch Fiber Tape embedded for a distance of 2 inches on both sides.

Additionally, stripe coat any other cracks in the concrete using Mer-Thane 330WC Waterproofing Membrane and embed Mer-Ko 4 inch Fiber Tape for a distance of 2 inches on either side of the crack.

3. Waterproofing Membrane

Mixing

Mer-Thane 330WC Waterproofing Membrane should be thoroughly mixed with 1 quart of water using a mechanical mixer at slow speed until a homogenous mixture and color is obtained. Use care when mixing to avoid air bubbles. DO NOT entrain air into the mixture. This can result in pinholes, blisters and/or shortened pot life.

APPLICATION

Apply Mer-Thane 330WC Waterproofing Membrane to the perimeter flashing using a brush, or phenolic resin core roller and to the deck surface using a squeegee or notched trowel at 16 mil DFT. Apply with continuous coverage to minimize lines and/or streaking, back roll as necessary. Allow Mer-Thane 330WC Waterproofing Membrane to cure a minimum of 4 to 6 hours and a maximum of 8 hours at 70°F (21°C) 50% RH prior to proceeding with additional coats to ensure proper adhesion. If more than 8 hours elapses, the surface must be primed.

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.
- Not suitable as a finished surface, the 330WC Waterproofing Membrane can not withstand direct wear and abrasion, a topcoat must be applied.

Technical Application Guide

Mer-Thane 330WC

- Not UV stable.
- Do not install in damp weather or when rain is expected within 24 hours.
- Mer-Ko waterproofing systems are designed for professional installation.
- System warranties require installation by currently listed applicators.
- Not designed for vehicular or heavy steel wheeled traffic.
- Not for use on slabs over unvented metal pans, suspended pool decks, swimming pools, magnesite, lightweight concrete surfaces.
- 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.
- Use extra caution in protecting surfaces not to be coated when using spray application methods. Windy conditions or over spray can damage surrounding surfaces.

STORAGE & HANDLING

Store all Mer-Thane materials in a dry environment at temperatures between 65 to 70°F (18 to 21°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. 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 metal container when the material is properly stored.

WARRANTY

Five (5), ten (10) and fifteen (15) year warranties are available depending upon product selection and project design. Contact Mer-Ko's Customer Service Department for specific warranty information..

TECHNICAL DATA

Coverage Rate	100 ft ² (9.3 m ²)/5.25 gallon mix
Yield: 16 (0.4 mm) DFT	
Hardness	20-30
(ASTM D2240, Shore A)	
Tear Resistance	45-55 pli
(ASTM D624, Die C)	
Tensile Strength	250-350 psi
(ASTM D412)	
Elongation	600-700%
Specific Gravity	1.2
Total Solids by Weight	95 +/- 2%
(ASTM D2697)	
Total Solids by Volume	94 +/- 2%
(ASTM D2697)	
VOC	60 g/L (<0.5 lbs/gal)
(ASTM D2369)	

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