

1. Product Name

MonoThane™

2. Manufacturer

TradeWinds International, Inc.

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3. Product Description

Basic Use: MonoThane™ possesses outstanding resistance to harsh environmental conditions, abrasion, impact, vibration, flexing and corrosion.

Applications: For high traffic, dense use and multi-purpose areas. Areas that are subjected to elevated exposure to chemicals. Areas subjected to harsh or infrequent cleaning methods.

Limitations: Interior use only.

Composition: a high-gloss, moisture cured, single component, water-based, modified aliphatic polyurethane coating.

Features and Benefits: MonoThane™ exhibits excellent adhesion to Lonseal flooring regardless of the texture. The finish is characterized by extreme resistance to the effects of U.V. exposure, maintaining virtually original gloss and color-fastness, even after long-term weathering; clear will not yellow, and standard and custom colors will not fade.

MonoThane™ has proven flexibility and tolerance to expansion and contraction, providing a completely non-cracking surface.

MonoThane™ has excellent short-term resistance to alcohols, acids, alkalis, solvents, fuels, and temperatures to 275° F; and long-term resistance to hydraulic, lubricating and cutting oils, gasoline and petrochemicals, food stains, salts, paints, inks, asphalt, wet concrete, algae, pesticides, fertilizers, creosote, etc.

A true monolithic surface (non-porous) results in a very low coefficient of friction for both Gloss and Semi-gloss. A low VOC qualifies MonoThane as an SCAQMD Extreme-Performance coating, as outlined in Rule 1107 Definition (12).

An ideal high-gloss coating that will not yellow and which will protect underlying colors from fading.

Packaging: 1-gallon cans, four each 1-gallon cans in cases and 55-gallon drums. (Other packaging options should be four gallon buckets).

Coverage: One gallon of MonoThane™ covers approximately 450 square feet at 1-mil Dry Film Thickness (DFT).

Colors: MonoThane™ can be computer-matched to any color. Standard colors are white, black, OSHA red, construction yellow, etc. Minimums apply to custom colors.

4. Technical Data

V.O.C.	@50 grams/liter (0.38 lbs/gal)
Gloss:	95 (ASTM D-523)
SCAQMD Rating:	Extreme High Gloss Coating per Rule 1107 paragraph (11) Extreme Performance Coating per Rule 1107 paragraph (12)
Solid Content (by wt):	39%
Consistency:	Brushable / sprayable
DFT:	3.5 to 4-mil
Coverage:	110-120 ft ² /gallon (80 sf / gal) (Rolled app.)
"Tack" Time:	30 minutes at 75° F.
"Tack-Free" Time:	1 hour at 75° F
"Stack" Time:	24 hours at 75° F
"Cure" Time:	48 hours at 75° F
Adhesion:	Excellent on metals, concrete, masonry, etc.
Tensile strength:	4,800 p.s.i. (ASTM D-412)
Shore Hardness:	50 after 7 days (ASTM D-2134)
Elongation:	125% (ASTM D-412)
Impact resistance:	Excellent: 1 lb. ball/5 ft. drop. No chipping or cracking.
Flexibility:	Excellent: 180° bend over 1/8" mandrel. No chipping or cracking.
Taber Abrasion:	60 (ASTM D-4060) CS10 wheel / 1-kg pressure. Film loss: 1-mil / 1200 cycles.
Salt spray:	No lifting or film deterioration after 1,500 hours at 90° F and 20% salt solution.
Weather resistance:	Excellent

5. Storage and Application

Storage: Store unopened product on a level surface in a clean, dry, climate controlled environment. Storage

temperature ranges from 50° - 90° F. MonoThane is NOT flammable.

Surface Preparation: MonoThane™ must be applied to a clean surface free of oil, grease, dust, powder, or any contaminants. Remove contaminants with a high pH cleaner and vigorous scrubbing followed by a water rinse and vacuuming to remove excess chemicals and residue. The surface must be dry before application of urethane.

Mixing: When adding distilled water to thin, mix for 5 minutes using a high-speed drill and paint paddle.

PIGMENTED NOTE: Always mix for 6 minutes using a high-speed drill and paint paddle as the pigment may have settled in transit.

Cure Time: MonoThane™ is a single-component system, which cures on exposure to the natural moisture in the air after application. High humidity results in reduced cure time; low humidity requires longer cure time. MonoThane™ must remain covered and tightly sealed when not open for use.

Any unused portion of MonoThane™ may be re-sealed in a smaller container to protect from atmospheric moisture. When the temperature is between:

- 40° F and 65° F an extended curing time is required
- 85° F and 110° F provide a shorter curing time

Do not expose to open air, more MonoThane™ than can be applied in approximately one hour, as curing begins immediately upon exposure to the natural moisture in the air.

Application

Do not attempt to use these products below 50° F or above 100° F.

Spray: Dilute with distilled water to spray consistency and to reduce "spider-webbing", "orange peel" and "fish eye". Allow a thin first coat to become dry to the touch before applying succeeding coats. Release trigger at apex of stroke to prevent build-up. Overlap strokes for adequate coverage.

Roll: Using clean paint rollers and pans with disposable liners, pour MonoThane™ into pan, dip pre-wetted roller and apply a thin first coat. Ensure even coverage with evenly spaced overlapping strokes. Apply succeeding coats only when the previous coat is touch-dry. Apply at right angles to the previous coat.

Allow NO traffic for minimum **24 hours**. Use caution when working on the floor since the final cure time is 72 hours.

Cleanup: Clean drips, tools and equipment with soap and water before MonoThane™ cures.

6. Availability and Cost

Average applied cost per square foot: \$1.25.

7. Warranty

Limited to replacement of material used.

8. Maintenance

1. Blot spills immediately.
2. Sweep daily.
3. Damp mop regularly using TASKI Profi in the mop water.
 - By hand: Occasionally scrub with a soft brush to deep clean.
 - Low speed machine: Occasionally use a soft brush attachment on a low speed rotary machine to deep clean.
4. Do not use harsh chemicals to clean floor.

9. Technical Services

Contact TradeWinds Technical Services for samples, comprehensive specification data and technical support.

10. Filing Systems

Brochures, test reports, product data, specification and details are available upon request from TradeWinds International.

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