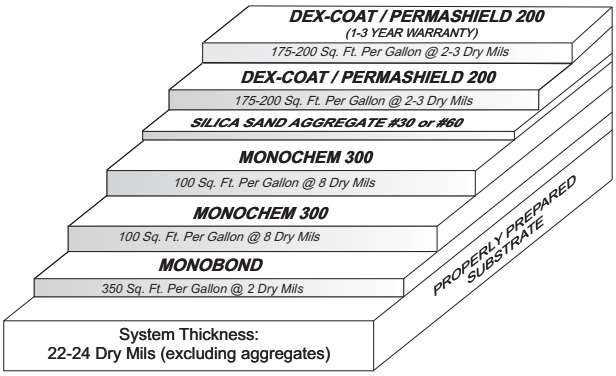
SYSTEM 330

Manufacturer of
U.S. SPECIALTY COATINGS

MONOCHEM DECK SYSTEM 330 is a high performance, liquid applied, elastomeric membrane system that displays ultimate waterproofing properties.

MATERIALS:

MONOBOND	Urethane-Modified Acrylic Primer
or	
MONOCHEM 21	Epoxy Primer- 100% Solids
MONOCHEM 300	Polyurethane Base Membrane
AGGREGATES	Silica Sand #30 or #60
DEX-COAT	Smooth Acrylic Top Coat
or	
PERMASHIELD 200	Polyurethane Top Coat



FEATURES:
- 1 & 3 Year Warranty Periods
- 740% Elongation
- Low VOC topcoat option
- 22-24 DMT excluding aggregates
- Superior Durability & Lightweight
- UV, Chemical and Abrasion Resistant
- Outstanding Weather Resistance
- Flexible Over Low Temperature Range
- Available in any color
- Easily adheres to concrete, wood, metals, masonry, existing coatings (water/oil/solvent/alkyd base), glazes, etc

APPLICATIONS:
- Elevated or On-Grade: Pedestrian Decks, Balconies, Walkways, Promenade, Floors, Stairways, Landings, Porches, Patios, etc.
- Pedestrian Bridges
- Concrete Roofs
- Apartments/Condominiums
- Mechanical Rooms
- Chemical Plants
- Schools, Universities

SURFACE CONDITION:
- Concrete must be cured for 28 days.
- The substrate moisture content must remain below 15% on cementicious surfaces and below 13% on wood.
- Do not apply to surfaces displaying hydrostatic pressure. The Visqueen Test (ASTM D4263) or Calcium Chloride Test can be used to measure the moisture content coming through the slab.
- The surface temperature must be between 50-90°F during the application.
- Job specifications require that surfaces be accepted by the coating applicator prior to the start of work. Substrates which are not structurally sound or do not meet specification requirements for surface condition should not be accepted.

SURFACE PREPARATION:
- The surface must be clean and free of adhesion affecting contaminants. Unsound paints, greases and oils must be throughly removed by using TSP, grinding, water blasting, sand blasting or shot blasting.
- Ensure that there is 1/4" slope per foot to avoid the damaging effects of standing water.
- Fill all gaps, cracks, seams, holes, joints, voids, etc. larger than 1/16" with a paintable floor patch.
- Ideally cut or grind off high spots to provide a smooth and even surface.

ELEVATED DECK ADDITIONAL STEPS:
- Wood Decks: Make sure to completely fill the gaps between planks of wood and the seams of tongue and groove decks with either a paintable elastomeric urethane caulk, fiber glass mesh, or polyester tape.
- Pay special attention to filling gaps that may occur where the railing meets the floor.
- Make sure the screws are all tight. Apply a paintable elastomeric caulk over the tight screws to fill in the gap. This will provide a smooth sound surface for the coatings to adhere to.
- Woods containing tannin acids (ex. Redwood, Pine, or Cedar) require a stain blocking primer to protect against the tannin bleeding prior to product application.
- Replace all damaged or rotted wood.
- Make sure the underside of the deck and the vertical lip areas are completely sealed or painted (the paint must bead water). This is required because if moisture soaks in underneath the coatings, hydrostatic pressure will be created. This will lead to product delamination during the evaporation process.
- Parapet /free standing deck walls: Wrap the chosen system (no sand required) for the base 2" of the wall (make sure the flashing is filled if it is cracked).
  - Also ensure that all the wall sides (front, back, cap, and sides if applicable) are sealed and do not absorb moisture.

PHASE 1:
MONOBOND (*Primer Option*)
- **MONOBOND** is ideal for top coating acrylic coatings or porous and properly prepared surfaces.
- Apply **MONOBOND** 1-Component urethane-modified acrylic primer @250-350 sq/ft /gal. to yield 2- 2.5 dry mils.

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•Allow **MONOBOND** to dry for approximately 2-3 hours (exceeding 48 hours will require re-priming) before top coating. Ideally coat the **MONOBOND** while it's still slightly tacky.

MONOCHEM 21 (*High Performance Primer Option*)
•**MONOCHEM 21** is ideal for top coating existing water/oil/solvent/alkyd/unknown coatings, porous, non-porous, sealed, and glazed surfaces.
•Using a low speed "Jiffy" type mixer, mix the A component of **MONOCHEM 21** separately for approximately 2-3 minutes (do not mix Part B by itself). Then mix the two components together for 3-5 minutes, scraping the bottom and sides of the mixing container at least once. Do not aerate the mix. Apply to the prepared surface using a high quality foam roller. Always test first.
•Allow the primer to dry for approximately 3-6 hours, depending on temperature and humidity, before top coating. Do not exceed 14 hours or repriming may be necessary.
•Top coat the **MONOCHEM 21** when it is tacky but not wet enough to leave a finger print. Do not allow the **MONOCHEM 21** to dry for more than 12-14 hours before applying the **MONOCHEM 300.**
•**MONOCHEM 21** approximate coverage rate: 200-300 sq/ft per gallon.
•**Pot Life**: 20 minutes.
•Apply tape or fiberglass mesh over the wet **MONOCHEM 21**.

PHASE 2:
MONOCHEM 300 (Basecoat Membrane)
•Apply the first coat of **MONOCHEM 300** 1-Component, Polyurethane membrane at a rate of 100 sq/ft per gallon, to yield 8 dry mils.
•Allow to dry for 4 hours before applying the second coat.
•Apply the second coat of **MONOCHEM 300** at a rate of 100 sq/ft per gallon, to yield 8 dry mils.
•Broadcast SILICA SAND size 30 onto the wet 2nd coat of **MONOCHEM 300** at an approximate rate of 11-14 lbs (up until saturation) per 100 sq/ft. Allow to dry for 24 hours then broom out all the loose sand.
•Top coat the **MONOCHEM 300** after 16-24 hours. Do not exceed 36 hours.

PHASE 3:
**Prior to applying the chosen top coat, broom out any sand that was not completely encapsulated into the basecoat membrane.*

DEX-COAT
(*One-Year Warranted Top Coat Option*)
•Mix **DEX-COAT** for 2-3 minutes until a homogenous color is obtained.
•Apply the first coat of **DEX-COAT** smooth 1-Component acrylic topcoat at a rate of 175 sq/ft per gallon yielding 2 dry mils using a short nap 1/4"-3/8" roller. Allow 1-2 hours of dry time, then apply the 2nd final coat of **DEX-COAT** at the same spread rate.

PERMASHIELD 200
(*Three-Year Warranted Top Coat Option*)
•Stir Part A to disperse product. Then pour all of the Part B into the Part A. Mix together for 3-5 minutes.
•No partial mixing and do not add water to either component.
•The pot life of the mixture is 2 hours.
•For best results use a high quality roller (1/4"-3/8"), brush or spray equipment.
•Apply the first coat of **PERMASHIELD 200** 2-Component Aliphatic Polyurethane topcoat, at a rate of 175 sq/ft/gal yielding 3 dry mils per coat. Allow 4-6 hours (do not exceed 14 hours) of dry time and apply the 2nd final coat of **PERMASHIELD 200** at the same spread ratio.

*Consult the individual technical data pages for additional application information.

COVERAGE:

Product	***Sq. Ft. per Gallon***
MONOBOND	250-350
MONOCHEM 21	200-300
MONOCHEM 300	100
DEX-COAT Smooth	175
PERMASHIELD 200	175
SILICA SAND	12-15 Pounds per 100 Sq. Ft

FINISHED SYSTEM:
When applied properly as directed above, the **MONOCHEM DECK SYSTEM 330** will provide approximately 24 dry mils excluding aggregates.

CURING TIME:
Curing times are approximations which can be affected by temperature and humidity.
•**DEX-COAT**: Light Foot Traffic: 6 hours, Normal Foot Traffic: 24 hours
•**PERMASHIELD 200**: Light Foot Traffic: 24 hours, Normal Foot Traffic: 48 hours, Hot Tires: 5 days

LIMITATIONS: MONOCHEM DECK SYSTEM 330 should not be subjected to rising water tables or hydrostatic pressure on slab-on-grade decks. For complete details, refer to each product technical data sheets and Material Safety Data Sheets.

CLEAN-UP INSTRUCTIONS:
Clean equipment with a urethane grade environmentally safe solvent, as permitted under local regulations, immediately after use. Dried products will require mechanical abrasion for removal.

SHELF LIFE & PACKAGING:
All the products listed below have a one-year shelf life.
•**MONO-BOND:** 1 Part.
1-Gallon Cans or 5-Gallon Pails

•**MONOCHEM 21:** 2:1 Mixing Volume Ratio.
96 Ounce Kits or 3 Gallon Kits

•**MONOCHEM 300:** 1 Part.
1-Gallon Cans or 5-Gallon Pails

•**DEX-COAT:** 1 Part.
1-Gallon Cans or 5-Gallon Pails

•**PERMASHIELD 200**: 2.5:1 Mixing Volume Ratio
1-Gallon Kits (112 Oz.) or 5-Gallon Kits (560 Oz.)

STORAGE:
Store indoors at room temperature. Protect from moisture and freezing. Discard any unused or left over materials.

WARRANTY INFORMATION:
All the recommended products will mirror the performance and soundness of the structure, previous coatings and filling/patching (repair) materials. For an ideal application, we recommend removing the existing coatings. If this is not an option, remove all unsound, loose and/or poorly adhering paint and conduct thorough test patches. Delamination or the failure of the existing/non Monopole coatings is not covered by any performance warranty. MONOPOLE believes that the information in this publication is an accurate description of the typical characteristics and/or uses of the product or products. But it is the end users responsibility to thoroughly test the product in the specific application to determine its performance efficacy and safety. Since use of this product is beyond our control, Monopole, Inc. cannot assume any risk or liability for results obtained when not used according to our specifications and directions. Unless MONOPOLE provides a specific written statement of fitness for a particular use, MONOPOLE'S sole warranty is that the product will meet its current sales specifications. MONOPOLE specifically disclaims any other expressed or implied warranty, including the warranty of merchantability and fitness for use. The exclusive remedy and MONOPOLE's sole liability for breach of warranty is limited to a refund of the purchase price or replacement of product proven to be defective. In no event shall the seller be liable for any loss of profits or other consequential damages. Under no circumstance will MONOPOLE pay labor charges.