

MONOCHEM

DEX-COAT[®]

TECHNICAL BULLETIN



MADE IN U.S.A.

Smooth and Non-Skid Acrylic Deck Coating

PRODUCT DESCRIPTION:

ITEM NO. 2600, 2700, 2800, 2900

MONOCHEM DEX-COAT is a water-based, acrylic deck coating that forms a tough finish for all exterior/interior floor surfaces. It can be applied to properly prepared latex painted or unpainted concrete, cement, wood, masonry, metal, and asphalt. DEX-COAT has outstanding durability and its abrasive-resistance quality assures excellent wear even in heavy traffic areas. It displays high resistance to alkali, acid, UV exposure and moisture. When cured, DEX-COAT will remain elastic and will contract and expand with temperature and weather variances.

BASIC USES - For porous substrates only

Ideal for residential or industrial applications: swimming pool areas, porches, patios, walkways, basketball courts, tennis courts, and walls.

PACKAGING:

DEX-COAT is available in either smooth or textured, clear base or white base, and can be tinted to any color using Universal Colorants.

- Item No. 2600: Smooth White Base - Short-Fill: 8 OZ/Gal
- Item No. 2700: Textured White Base - Short-Fill: 8 OZ/Gal
- Item No. 2800: Textured Clear Base - Short-Fill: 12 OZ/Gal
- Item No. 2900: Smooth Clear Base - Short-Fill: 12 OZ/Gal

PREPARATION:

Surface preparation is critical to product performance. The surface to be coated must be dry and clean, free from all dirt, dust, oil, grease, wax and any loose materials or contaminants that will inhibit proper adhesion.

BARE CONCRETE SURFACES:

Bare concrete surfaces must be fully cured, porous, water absorbent, structurally sound, and free from rock pockets, voids, cracks and contaminants. Dense (non-porous concrete*) should be primed with MONOCHEM 21, sandblasted, shot blasted, or acid etched 2-3 times for proper penetration and adhesion. *Refer to ABSORPTION TEST. The unsealed floor to be coated should have a 120-180 grit surface profile to avoid priming.

For the Absorption Test and etching instructions contact Monopole's Technical Support or refer to the Application Guide for Monochem Floor/Deck Coatings.

PREVIOUSLY PAINTED CONCRETE SURFACES:

The composition of the existing coating should be determined prior to application.

ACRYLIC/LATEX PAINT: Remove all loose, peeling or poorly bonded paint. Surfaces must be mechanically cleaned and abraded, using 60-80 grit sandpaper. Dull glossy surfaces by sanding or by using a chemical deglosser. Clean surfaces by using MONOCHEM CLEAN POWER or by scrub washing with a solution of 1/2 cup TSP to one gallon of warm water. Pay special attention to areas where build-ups of dirt, grease and oil exist. These areas should be scrubbed clean.

TECHNICAL DATA:

Composition.....	Acrylic
Finish.....	Low Gloss
Viscosity.....	85-90 KU's
VOC Level (Category: Waterproofing Sealer).....	<50 g/L
SPECIFIC GRAVITY	
2600-Smooth WB.....	1.12-1.16 g/cm ³
2700-Textured WB.....	
2800-Textured CB.....	
2900-Smooth CB.....	1.05-1.06 g/cm ³
SOLIDS BY WEIGHT (ASTM D2396)	
2900-Smooth Clear.....	38% ±2
2600-Smooth Pigmented.....	40% ±2
2700/2800-Textured.....	56-60%
Elongation.....	350%
Moisture Vapor.....	Excellent
Water Resistance.....	Excellent
Solvent Resistance.....	Excellent
Alkali Resistance.....	Excellent
Abrasion Resistance.....	Excellent
Meets Federal Specification TT-C-0555A Section 333 for water permeability and ASTM E-95 Method A for water vapor permeability.	
- Factor of friction (Non-slip Properties)	
Per ASTM C1028	
Leather (wet).....	45% (dry).....59%
Rubber (wet).....	65% (dry).....76%
Concrete (wet).....	85% (dry).....94%
- Coefficient of expansion	
(20°F. to 100°F.).....	Average 8.1 X 10 ⁴

Apply one coat of MONOCHEM ULTRA-PRIME Polyurethane Primer or MONOCHEM 21 Epoxy Primer. For more information, follow product data and label instructions.

OIL BASED PAINT: Apply one coat of MONOCHEM 21 Epoxy Primer. For more information, follow the product data sheet or contact our technical service department. Removing all existing oil based coatings by sandblasting, shot blasting, or bead blasting is another option. This includes all chlorinated rubber and solvent based finishes such as oil based enamels, epoxies, urethanes, etc.

WOOD SURFACES:

- Wood surfaces should be sanded to a rough finish to provide "tooth" for the coating.
- Wood decks or dimensional lumber built with gaps between planks should be taped and caulked. This protects against water penetrating behind the coating, which creates hydrostatic pressure.
- We recommend sealing all sides of the wood to prevent moisture penetration.
- The moisture content of the wood must be 13% or lower.
- DEX-COAT will not stop tannin acid bleeding from wood.

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TRAFFIC COATINGS 09610
PROTECTIVE COATINGS

MONOPOLE INC.
UPDATED MARCH 2011



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Tannin acid is commonly found in pine, redwood, and cedar. For application over woods that contain tannin acid, we require applying **MONOCHEM AQUAPRIME** as a stain blocker/primer before applying **DEX-COAT**.

UNPAINTED METAL SURFACES:

All rust and contaminants must be removed by lightly blasting with fine abrasives or by conducting a light etching with **MONOCHEM METAL ETCH**. To minimize rust formation in areas where rust has previously formed, we require applying a rust inhibitive metal primer within 6 hours after preparing the surface.

Galvanized, Aluminum, Stainless Steel: Remove all oils or films with a neutral detergent or emulsion cleaner. Blast lightly with fine abrasives or conduct a light etching. Then rinse using a Zinc treatment and prime with a rust inhibitive primer

Corrosive Metals: Remove all the loose rust, dirt, grease or other contaminants by one of the following depending on the degree of cleanliness required. Blast SSPC-SP3; SSPC-SP2; SSPC-SP6; SSPC-SP7. Blast lightly with fine abrasives or conduct a light etching. Then rinse using Zinc treatment and prime with a rust inhibitive primer.

NOTE: ALWAYS apply a test patch to check for adhesion, compatibility and proper results. Responsibility for determining the adhesion of **DEX-COAT** to an existing finish rests with the applicator. Application of **DEX-COAT** over existing and poorly adhering painted surfaces may result in the eventual lifting of the old paint.

APPLICATION & COVERAGE:

DEX-COAT SMOOTH:

- Apply at an approximate spread rate of 200-250 square feet per gallon.
- Apply the second coat as soon as the first coat is dry to the touch (approximately 2-4 hours).
- Two coats are required.
- It can also be applied using airless equipment.

DEX-COAT TEXTURED:

- Work from the container, a paint tray or by pouring the coating on the surface to be coated. Work a small section at a time, and make the final pass with the roller in one direction to give an even texture and to help eliminate lap marks. Under normal conditions, the surface will remain workable for 5-10 minutes.
- Apply at the rate of 100 to 150 sq/ft per gallon.
- Two coats are required to yield 10 dry mils. Applying two coats ensures an elastic coating that will flex with temperature variances.
- Allow the first coat to dry to the touch (approximately 2-4 hours) before applying second coat. Apply the second coat in the opposite direction distributing the sand evenly.
- **DEX-COAT TEXTURED** can be applied using a hopper gun (do not use airless equipment).

Box and mix all containers to ensure a consistent color. For applications on elevated (second story) decks, we recommend the use of **ULTRA-PRIME** and **MONOCHEM 300** waterproofing membrane prior to applying **DEX-COAT**. Use a paint brush, short nap or foam roller. Rollers should be changed after 1 ½ hours of use. Contact Monopole's Technical Department for additional information.

DRYING TIME: (@77°F and relative humidity of 50%)

Allow 2-4 hours between coats (dry to the touch).
Allow 4-5 hours dry time for light foot traffic.
Allow 24 hours dry time for normal foot traffic.
Allow 5 days dry time before placing heavy objects on the surface.
Exterior applications must be protected from rain for at least 24

hours after application. High temperatures will shorten drying time, and conversely lower temperatures and high humidity will lengthen drying time.

LIMITATIONS:

DEX-COAT will not form a water-proofing membrane and does not seal inaccessible areas. It will not bridge cracks, fill large pores or compensate for flawed construction. Exposed walls must be capped and the backside of parapet walls must be sealed, flashings must be in place and weep holes and drains installed and functioning (where applicable).

WHEN NOT TO USE DEX-COAT

- Do not apply over previously sealed surfaces.
- Do not apply over poorly-bonded paint.
- Do not apply if moisture in the substrate is higher than 15%.
- Do not apply to a poorly cured, dusty or contaminated concrete.
- Do not apply to surfaces exhibiting hydrostatic pressure.
- Do not apply if surface temperature is over 90°F. or below 55°F.
- Do not apply if surface pH level is above 8.
- Do not apply in windy conditions or if rain is expected within 24 hours.
- Do not apply to unsound substrates.

LEED CREDITS

DEX-COAT qualifies for earning LEED® credits for Indoor Environmental Quality, EQ 4.2 Low-Emitting Materials, based on low contribution of VOC.

MPI APPROVED PRODUCT:

MPI # 127 Deck Coating, Latex, Exterior

CLEAN-UP:

Wash all equipment and clothes thoroughly with warm water and detergent immediately after use. Dried material on tools, surfaces or other surrounding surfaces will not easily be removed. After a full cure, for dirt and common stains you can wash the surface using a mop with warm water and soap.

FIRST AID:

Eye Contact: Flush the affected eyes with fresh water for at least 15 minutes and call a physician.

Skin Contact: Wash skin with soap and water.

Inhalation: Get fresh air if affected by the vapor or spray mist.

Ingestion: Do not induce vomiting and call a physician immediately.

STORAGE & SHELF LIFE:

Store in temperatures between 40°F - 90 F. **PROTECT FROM FREEZING.** **DEX-COAT** has a one year shelf life in the well protected, unopened original container.

Read the technical bulletin and Application Instructions for Monochem Floor/Deck Coatings before proceeding with the application.

WARRANTY INFORMATION: 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.



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