

DEX-COAT[®]

TECHNICAL BULLETIN



Smooth and Non-Skid Acrylic Deck Coating

MADE IN U.S.A.

PRODUCT DESCRIPTION:

MONOCHEM DEX-COAT is a water-based, acrylic deck coating that forms a tough finish for all exterior/interior floor surfaces. It has outstanding durability and its abrasive-resistance quality assures excellent wear even in heavy traffic areas. It displays high resistance to alkali, acids, UV exposure and moisture. When cured, **DEX-COAT** remains elastic and will contract and expand with temperature and weather variances.

BASIC USES - For porous substrates only

DEX-COAT can be applied to properly prepared latex painted or unpainted concrete, cement, wood, masonry, metal, asphalt, etc.

Easy Maintenance: Whenever a touch up is desired, just TSP the sound **DEX-COAT** and reapply.

TYPICAL USES:

- Walls & Floors
- Porches & Patios
- Tennis/Basketball Courts
- Swimming Pool Areas
- Decks
- Walkways
- Non-Skid Floors
- Wood Gates

FEATURES:

- Low VOC
- Outstanding Color & Gloss Retention
- Low Gloss
- Easy Maintenance
- MPI Approved Product: MPI # 127 Deck Coating, Latex, Exterior
- Very Low Odor
- Choice of Colors
- Durable
- Flexible Elastomer

Product Qualifications	
Cal Green	Yes
OTC (Industrial Maintenance)	Yes
SCAQMD (Industrial Maintenance)	Yes
CARB (Industrial Maintenance)	Yes
LEED (New Construction)	Yes
LEED (New Schools / CHPS)	Yes

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: 6 OZ/Gal
- Item No. 2700: Textured White Base - Short-Fill: 6 OZ/Gal
- Item No. 2800: Textured Clear Base - Short-Fill: 12 OZ/Gal
- Item No. 2900: Smooth Clear Base - Short-Fill: 12 OZ/Gal

SUGGESTED PRIMERS:

Monobond: Ideal for top coating water based acrylic / latex paints, wood, concrete or stucco.

Monochem 21: Ideal for top coating oil/solvent/alkyd/unknown or water based coated surfaces. Easily adheres to non porous surfaces like marble, glazes and very smooth concrete.

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. Do not apply **DEX-COAT** over poorly adhering coatings because when the original paint peels, it will take with it the soundly adhering **DEX-COAT**.

TECHNICAL DATA:

Composition Acrylic
 Finish Low Gloss
 Viscosity 85-90 KU's
 VOC Level <50 g/L

SOLIDS BY WEIGHT (ASTM D2396)

2900-Smooth Clear 43% ±2
 2600-Smooth Pigmented 46% ±2
 2700/2800-Textured 57-61%

Elongation 150%
 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.

- Non Slip Properties

Meets ASTM C1028 for COF (Coefficient of Friction) and complies with ADA requirements (American Disability Acts) for slip resistance.

Dex-Coat	Concrete (Wet)	Concrete (Dry)
Textured	0.85	0.94
Smooth	0.65	0.75

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 scrub washing with a solution of ½ 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.

If **DEX-COAT** does not pass adhesion tests with the existing paint, apply one coat of **MONOBOND** acrylic-urethane primer or

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ACRYLIC COATING 09900
 PROTECTIVE COATINGS

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 UPDATED APRIL 2017



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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. All wood surfaces should be screwed down tightly.
- The moisture content of the wood must be below 13%.
- **DEX-COAT** will not stop tannin acid bleeding from wood during and after application. Tannin acid is commonly found in pine, redwood, and cedar. For application over woods that contain tannin acid, we require applying 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 3 hours after preparing the surface.

Non Ferrous (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 apply **DEX-COAT**.

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 prime with a rust inhibitive primer within 3 hours.

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 1-3 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 1-3 hours) before applying second coat. Apply the second coat in a cross pattern with the first coat (ex. if the first coat is applied North to South, apply the second coat East to West) to evenly distribute the texture.
- **DEX-COAT TEXTURED** can be applied using a short nap roller (1/4 - 3/8”) or a hopper gun (do not use airless equipment).
- For the most uniform dispersion of the texture, apply one heavy coat of **DEX-COAT TEXTURED** at 60-70 square feet per gallon using a texture spray gun.

For applications on elevated (second story) decks, we recommend the use of **MONOBOND** 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 1-3 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).

SAFETY INFORMATION:

Monopole, Inc. recommends the use of aggregates for skid resistance, in all of their floor coatings that may be exposed to wet, oily or greasy conditions. The type of activity on the floor surface may determine the degree of slip resistance required for a specific area. Monopole, Inc. will not be responsible for injury caused in a slip or fall situation. It is the end users responsibility to determine the suitability and safety of our coatings for their particular use or application.

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.

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 be more difficult to remove. After a full cure, for dirt and common stains you can wash the surface using a mop with warm water and soap or detergent.

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.

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.