

MONOCHEM

# FLOORCOAT<sup>®</sup>

TECHNICAL BULLETIN



MADE IN U.S.A.

## Garage & Driveway Acrylic Coating

### PRODUCT DESCRIPTION:

ITEM NO. 2400, 2500

FLOORCOAT is a high performance garage and driveway coating that forms a very durable low-gloss finish. With proven resistance to transmission fluid, brake fluid, oil, grease, gasoline and water, it protects concrete surfaces from various chemicals commonly found on garage and auto body shop floors.

It is designed for application over interior and exterior, painted or bare (porous) properly prepared concrete, masonry, wood, asphalt, and magnesite surfaces.

#### ADVANTAGES:

- Excellent Wearability
- Chemically Resistant
- Abrasive Resistant
- Clear and Colors
- UV Resistant
- Easy Maintenance
- Resistant to Hot Tire Pick-Up

For industrial and commercial parking structures, please consult the manufacturer.

| Product Qualifications    |     |
|---------------------------|-----|
| Cal Green                 | Yes |
| SCAQMD                    | Yes |
| CARB                      | Yes |
| LEED (New Construction)   | Yes |
| LEED (New Schools / CHPS) | Yes |

#### PACKAGING:

FLOORCOAT is packaged in clear base and white base, one-gallon cans or five-gallon pails.

ITEM NO. 2400: Floorcoat Smooth Clear Base - Short Fill: 12 Oz./Gal

ITEM NO. 2500: Floorcoat Smooth White Base - Short Fill: 8 Oz./Gal

#### RECOMMENDED PRIMERS:

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

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

#### 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.

#### TECHNICAL DATA:

Composition ..... Acrylic  
 Solids by Weight, Clear ..... 36% ±2  
 Solids by Weight, Pigmented ..... 40% ±2  
 Viscosity ..... 90-95 KUs  
 VOC Level ..... <50 g/L  
 Finish ..... Low-Gloss

Moisture Vapor ..... Excellent  
 Solvent & Chemical Resistance (1) ..... Excellent  
 Toughness/Hardness ..... Excellent  
 Water Resistance ..... Excellent  
 Abrasion Resistance ..... Excellent  
 Hot Tire Pickup Resistance (2) ..... Excellent  
 Meets federal specifications ..... TTP-1411A

#### TEST RESULTS:

(1) One hour chemical soak under a watch glass

Muriatic Acid ..... No detrimental effects  
 1M Sodium Hydroxide ..... No detrimental effects  
 Motor Oil ..... No detrimental effects  
 50:50 Anti-freeze/Water ..... No detrimental effects  
 5% Salt Water ..... No detrimental effects  
 Power Steering Fluid ..... No detrimental effects  
 Water ..... No detrimental effects  
 Gasoline ..... No detrimental effects  
 Brake Fluid ..... No detrimental effects  
 Transmission Fluid ..... No detrimental effects

(2) Laboratory test methods require a Carver Press with a removable steel plate, oven and section of a used radial tire (6000 miles). The coated substrate, tire section, and removable steel plate are heated to 150°F for one hour in the oven.

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 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 adhesion is an issue during the required test patch apply one coat of **MONOBOND** Urethane-Modified Acrylic Primer or **MONOCHEM 21** Epoxy High Performance 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 sheets or contact our technical service department. Removing all existing oil based coatings by sandblasting, shot blasting, or bead blasting are other options. Chlorinated rubber and solvent based finishes such as oil based enamels, epoxies, urethanes, etc. should follow the same procedures.

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FLOOR COATING 09900  
PROTECTIVE COATINGS

MONOPOLE INC.  
UPDATED JANUARY 2018



Chemex Industries, Inc.

3 Chattanooga, Irvine, CA 92620 • Phone: 714-832-8441 • Fax: 714-832-8103

#### 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.
- **FLOORCOAT** will not stop tannin acid bleeding from wood. 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 **FLOORCOAT**.

#### 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 **MONOBOND RUST INHIBITIVE PRIMER** within 6 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 the surface using Zinc and apply **DEX-COAT** within 3 hours to avoid corrosion.

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 the surface using Zinc and apply **MONOBOND RUST INHIBITIVE PRIMER** within 3 hours to avoid corrosion.

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

#### APPLICATION & COVERAGE:

Boxing and mixing all containers is recommended to ensure a perfect consistent color. For applications on elevated (second story) decks, we recommend the use of **MONOBOND** and **MONOCHEM 300** waterproofing membrane prior to applying **FLOORCOAT**. Contact our technical support department for required application.

- Apply rate of 225-250 square feet per gallon on smoother surfaces and 175-200 square feet per gallon on textured surfaces.
- Apply the second coat as soon as the first coat is dry to the touch.
- Two coats are required.
- It can also be applied using airless equipment.
- Use a paint brush, short nap or foam roller. Rollers should be changed after 1 ½ hours of use.

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

- Allow 2-4 hours between coats (dry to the touch).
- Allow 4-6 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.

Maintenance: TSP the soundly adhering **FLOORCOAT** and conduct a new application anytime.

#### WHEN NOT TO USE FLOORCOAT

- 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 or dusty concrete.
- Do not apply to a surface exhibiting hydrostatic pressure.
- Do not apply if surface temperature is over 90°F. or below 55°
- Do not apply if surface pH level is above 8.
- Do not apply in windy conditions or if rain is expected within 2 hours.
- Do not apply to unsound substrates.

**FLOORCOAT** 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.

#### CLEAN-UP:

Wash all equipment and clothes thoroughly with warm water and detergent immediately after use (while the **FLOORCOAT** is still wet). 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 or detergent.

#### FIRST AID:

Eye Contact: Flush 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 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**. One year shelf life in well protected, unopened original container.

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

#### SAFETY INFORMATION:

Wet **FLOORCOAT** can become slippery. For non-skid coatings, contact your distributor or our office.

Monopole Inc. recommends the use of aggregates, for skid resistance, in all of its 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 user's responsibility to determine the suitability and safety of our coatings for their particular use and 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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