

MONOCHEM

MONOCHEM 610®

TECHNICAL BULLETIN



High Solids, Aliphatic Urethane Topcoat



MADE IN U.S.A.

PRODUCT DESCRIPTION:

ITEM NO. 1610

MONOCHEM 610 is a pigmented single component, elastomeric aliphatic polyurea coating. It is primarily used as a topcoat over **MONOCHEM 310** (base coat) creating a system that displays superior elongation, wear resistance, weathering, UV and chemical protection.

BASIC USES: MONOCHEM 610 waterproofs concrete and plywood decks, parking structures, helicopter pads, and areas requiring a seamless membrane to protect against water damage. It is ideal for industrial locations where surfaces must withstand vehicular and foot traffic. **MONOCHEM 610** can also be used on metal, rubber, wood and masonry surfaces that require UV, water and dustproofing protection.

LEED CREDITS: MONOCHEM 610 qualifies for earning LEED® credits for Environmental Quality, EQ 4.2 Low-Emitting Materials, based on low contribution of VOC.

PACKAGING & COLORS: MONOCHEM 610 is packaged in 1-gallon cans and 5-gallon pails and is available in a Medium Gray, Dark Gray, Stone Gray, Tan, Indian Sand, Brown and Red.

PREPARATION:

- All joints must be caulked with a paintable polyurethane elastomeric sealant.
- Smooth or porous concrete must be cleaned before applying the required **MONOCHEM 21** primer.
- All surfaces must be primed with **MONOCHEM 21** at a rate of 250-300 square feet per gallon or 2-3 dry mils per coat. Allow **MONOCHEM 21** to dry for approximately 4-6 hours (do not exceed 10 hours or repriming may be necessary). It is very important to topcoat the primer while the primer is slightly tacky.
- If a thick elastomeric waterproof membrane is desired, the **MONOCHEM 310** can be incorporated into the application. Contact Monopole, Inc. Technical Department for application details.

PRECAUTION:

- All surfaces to be coated must be thoroughly dry (cementitious surfaces below 15% moisture and wood below 13%) and free of all adhesion affecting contaminants including oil, grease, concrete hardener(s), paint and dirt.
- Containers that have been opened must be used because **MONOCHEM 610** is a moisture reactive material that activates when exposed to air.
- **MONOCHEM 610** may not be diluted.
- It is recommended to incorporate an aggregate into **MONOCHEM 610** to provide a slip-resistant surface; otherwise the surface may be slippery during wet conditions.
- Surfaces displaying hydrostatic pressure should not be coated until the problem is corrected.
- Surfaces with a pH over 8 should not be coated.

MIXING:

- When mixing **MONOCHEM 610** use a mechanical mixer (e.g. Jiffy Mixer) without allowing the entrapment of air into the mixer.
- Pour all of the color paste into the **MONOCHEM 610** (scrape as much color paste out as possible). Stir the mixture for approximately 3 minutes.
- Pour a small amount of **MONOCHEM 610** back into the color paste can. Scrape all of the remaining color residue from the color paste can into the added **MONOCHEM 610**.
- Pour all of the material from the paste can back into the bucket of **MONOCHEM 610**. Stir the mixture for 4 minutes. Apply the **MONOCHEM 610**.

TECHNICAL DATA:

Solids by Weight (ASTM D2369).....	77 ± 2%
Weight per Gallon (ASTM D1475-98).....	10.95 Lbs.
Viscosity at 75°F.....	2000 ± 500cps.
Hardness(ASTM D2240-05).....	95 ± 5 Shore A
Tensile Strength (ASTM D412-06a).....	3500 ± 400 psi
Tear Resistance (ASTM D624), Die C.....	500 ± 50 pli
Abrasion Resistance C-402 tabor abrasion, 1000rev, w/1000 gm weight.....	0.010
Chemical Resistance: acid, salts, oils (ASTM D471-06).....	Excellent
Resistance to Weathering (ASTM D471-06).....	Excellent
Ultimate Elongation (ASTM D412-06).....	215%
VOC (ASTM D2369).....	<100 g/L
Dry Mil Thickness (no aggregate) per coat @100 sq. ft/gal.....	12 ± 2 Mils

APPLICATION:

- Each application should be done in one complete step. A continuous application will ensure a smooth and level coat without lines or streaks to disfigure the surface.
- Apply **MONOCHEM 610** at a rate of 100 square feet per gallon resulting in 10-12 dry mils. It can be applied by 1-1.25" roller (best results), airless sprayer or notched trowel.
- Apply the second coat of **MONOCHEM 610** 16-24 hours (not exceeding 48 hours) after the first coat.
- The base coat should be dry 24 hours before applying topcoat.
- **MONOCHEM 610** at 50% relative humidity and 75°F will be dry to touch in 16 hours.
- The surface temperature must be over 60°F for a proper application.

DRY TIMES:

Light foot traffic: 24hours. Full foot traffic: 48 hours. Vehicular traffic: 72 hours. Dry times can be affected by temperature and humidity.

CLEAN UP:

Equipment should be cleaned immediately after use with environmentally safe solvents, as permitted under local regulations.

SHELF LIFE:

Six months @72°F in an unopened container.

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.

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HIGH PERFORMANCE COATING 09960
PROTECTIVE COATINGS

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