

MONOCHEM

TECHNICAL BULLETIN

DRY ERASE®



2-Component, Water Base, Aliphatic Polyurethane

MADE IN U.S.A.

PRODUCT DESCRIPTION:

MONOCHEM DRY ERASE is 2-component aliphatic polyurethane that creates a dry erase environment for interior or exterior surfaces. It allows you to convert almost any surface into a high performance erasable canvas. It is a GREEN/universally compliant coating that is USDA approved and has zero HAP's. **DRY ERASE** is available in a gloss, clear or can be pigmented to any color.

BASIC USES:

MONOCHEM DRY ERASE is ideal for most drywall, Masonite, wood, concrete, cement and prepared metal surfaces. It is highly recommended for a variety of settings like schools (old chalkboards, whiteboards or walls), offices, warehouse, cafeterias, gymnasiums, homes, etc.

ADVANTAGES:

- Universally Compliant
- Low Odor/ Zero HAP'S
- Very Low VOC, USDA Compliant
- Superior Cleanability and Stain Resistance
- Top Tier Chemical Resistance
- Outstanding Hardness, Durability and Abrasion Resistance
- Can be pigmented to any color.
- Ideal for schools, offices, warehouses, cafeterias, gymnasiums, homes, etc.

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

SURFACE PREPARATION:

Concrete, Masonry, Drywall, Plaster, Cement Materials, Etc.:
All Surfaces must be dry (<15% moisture) and cured for a minimum of 28 days. All adhesion affecting contaminants like dust, dirt, grease, oils, efflorescence, release agents, curing compounds, etc. must be completely removed prior to product application. All cracks and holes larger than 1/16" need to be patched with a paintable filler prior to product application.

*Drywall Surfaces: Must be previously painted or have a PVA primer (ex. **AQUAPRIME**) applied. Recommended only for drywall surfaces Level 4 and above.

TECHNICAL DATA:

Composition	2 Component Aliphatic Polyurethane
Solids by Weight (ASTM D2396)	55% ±2
Solids by Volume (ASTM D2697)	54% ±2
VOC Level	< 10 g/L
Viscosity (Mixed, Part A & Part B)	90 KU
Film Appearance, Gloss @60° Gloss (ASTM D523)	94-96°
Color	Clear (5670) and White (5660)
Coverage (Approximately)	175-275 sq/ft/gallon @4-6, Wet Mills, 2-3 Dry Mills
Warranty	10 Years
Scrub Resistance (ASTM D2486)	7,500+

Glossy Surfaces & Wood (Glazed Tiles, Plastics, Metal, Porcelain, Formica, Fiberglass): These surfaces must be sanded smooth and primed with **MONOBOND** (can be pigmented to lighter colors) or **MONOCHEM 21** ("stick to anything primer"). **MONOCHEM 21** has an amber hue to it. If this is an issue, just pigment the **MONOCHEM DRY ERASE** to any desired color to hide this effect. Conduct a thorough adhesion test prior to application.

Painted Surfaces: Allow all latex base color coats to dry for 24 hours minimum before topcoating. Existing 2-component coatings (ex. epoxies, polyurethanes, etc.) may require abrasion or priming with **MONOCHEM 21** prior to product application.

Metals: Non-Corrosive Metals (Galvanized, Aluminum, Stainless Steel, etc.): 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 coat within 3 hours to avoid oxidation.

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 SSOC-SP3; SSPC-SP2; SSPC-SP6; SSPC-SP7. Blast lightly with fine abrasives or conduct a light etching. Then rinse using a zinc treatment and apply a rust inhibitive primer prior to **MONOCHEM DRY ERASE**.

Warning: Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD or contact your local health authority.

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HIGH PERFORMANCE COATING 09900
PROTECTIVE COATINGS

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UPDATED APRIL 2017



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MIXING: Stir the Part A thoroughly by itself (do not stir Part B by itself). Then pour Part B into Part A and mix thoroughly until the coating is uniform in color (~2-3 minutes). Proceed with the application immediately after mixing.

POT LIFE: 1-2 hours after mixing. Discard materials not applied within the recommended pot life period.

Apply in a well ventilated area. When sufficient ventilation is not available make sure to use respirators and the proper personal protective equipment.

APPLICATION:

- Apply only when air and surface temperature are between 50-90°F (10-32°C) and the relative humidity is below 85%.
- Apply the recommended primer if needed. A primer is not recommended for existing surfaces already painted with latex paint.
- Note: A continuous application will ensure a smooth and level coat that is free of lines and streaking. Application should not be stopped part way across an area and completed later.
- Two coats of **MONOCHEM DRY ERASE** are required over white or light colored surfaces. Three coats are recommended over darker surfaces to achieve hide.
- The recommended coverage rate is between 175-275 sq/ft/gallon depending on surface porosity, yielding 2-3 dry mils per coat. Do not exceed six (6) wet mils per coat to prevent hazing or micro bubbling from occurring.
- To obtain proper adhesion between coats it is imperative that recoating be done within 4-6 hours. Do not exceed 16-20 hours between coats or sanding may be required.
- Allow **MONOCHEM DRY ERASE** to cure for a minimum of 5-7 days before applying any markings. Once fully cured, **MONOCHEM DRY ERASE** markers may be applied to the surface and then wiped off with an eraser or lint-free cloth.
- For best results use good quality roller, brush or airless sprayer. Always apply a test patch prior to application to ensure the desired appearance and performance.

DRY ERASE MARKER REMOVAL:

- Use standard dry erasers or a non-abrasive cloth to wipe dry erase markings until they are completely removed.
- For tough to remove dry erase markings the following cleaners can be used: Expo White Board Cleaner, Windex Crystal Rain Clear, or D-limonene cleaning wipes (ex. by Tub O' Towels).

STANDARD DRY TIME:

- Pot Life: 1-2 hours
- Dry-To-Touch: 4-6 hours
- Recoat Time: 4-6 hours
- Maximum Recoat Time: 16-20 hours
(After 18-24 hours, abrading or sanding the surface will be required)
- Dry Erase Exposure: 5-7 days
- Full Cure: 5-7 days

SHELF LIFE:

MONOCHEM DRY ERASE has a one-year shelf-life in an unopened container stored at room temperature.

CLEAN-UP:

Clean brushes, hands and tools immediately with soap and water while the material is still wet.

PACKAGING:

MONOCHEM DRY ERASE is available in clear or white quart & gallon sized kits.

Gloss

- Clear Quart Kit: #5670-28OZ (20 Oz Part A & 8 Oz Part B)
- Clear Gallon Kit: #5670-01 (80 Oz, Part A & 32 Oz Part B)

- Tint Base Quart Kit: #5680-28OZ (20 Oz Part A & 8 Oz Part B)
- Tint Base Gallon Kit: #5680-01 (80 Oz, Part A & 32 Oz Part B)

- White Quart Kit: #5660-31OZ (23 Oz Part A & 8 Oz Part B)
- White Gallon Kit: #5660-01 (86 Oz, Part A & 32 Oz Part B)

WARRANTY:

Monopole Inc. warrants the **MONOCHEM DRY ERASE** for a 10-year period as long as the substrate, application, and cleaning methods meet the guidelines. For the duration of the 10-year warranty no additional coats of **MONOCHEM DRY ERASE** will need to be applied.

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. It is your responsibility to thoroughly test the product in your specific application to determine its safety and performance capabilities. 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 specifically written statement of fitness for a particular use, MONOPOLE'S sole warranty is that the product will meet its current sales specifications. MONOPOLE disclaims any other expressed or implied warranties, including the warranty of merchantability and fitness for use. Your exclusive remedy and MONOPOLE'S sole liability for breach of warranty is limited to a refund of the purchase price or replacement of any product proven to be defective. In no event shall the seller be liable for any loss of profits or other consequential damages, including labor charges.