

PERMASHIELD®

TECHNICAL BULLETIN



Non - Sacrificial Graffiti Resistant Coating

MADE IN U.S.A.

PRODUCT DESCRIPTION:

ITEM NO. 5300, 5400

PERMASHIELD NON-SACRIFICIAL is a one component, water based copolymer plastic coating that dries to a clear hard, non-yellowing film. It protects the surface and prevents the penetration of spray paint, marking pens, chemical attacks, crayons and lipstick into the substrate.

BASIC USES:

PERMASHIELD NON-SACRIFICIAL may be used on most interior or exterior surfaces. It is used for graffiti control and to protect against fog, mildew, corrosion, fumes and salt spray. It also leaves the surface easy to clean.

PREPARATION:

All surfaces must be clean and dry, free from dust, dirt, oil, scale, rust, etc. Mortar joints should be sound, cracks that are larger than hairlines should be sealed/caulked or filled. Any other repairs or improvements which may be necessary to insure a sound surface must be conducted before the application of **PERMASHIELD NON-SACRIFICIAL**. All preparation, caulking of joints or cracks must be allowed to cure prior to application of **PERMASHIELD NON-SACRIFICIAL**. Alkali or efflorescence on the surface should be treated or cleaned with a neutralizing agent such as a solution of muriatic acid diluted (4:1 water: muriatic acid). Allow the surface to dry for minimum of 48 hours or until moisture level is less than 15%, before proceeding with the application of **PERMASHIELD SYSTEM**.

APPLICATION:

STIR OR SHAKE WELL BEFORE USING

NOTE: Red brick masonry or naturally stained deep colored block might show haziness after the application of **PERMASHIELD NON-SACRIFICIAL**. This accentuation is normal and expected from all film forming clear glossy coatings. Test an area for approval before proceeding with entire job.

PERMASHIELD NON-SACRIFICIAL may be applied over sealed surfaces and properly primed wood and metal. Make sure to test the adhesion to each surface type prior to proceeding with the desired application.

UNPAINTED MOISTURE ABSORBENT SURFACES:

A. **Base Coat:** **AQUASEAL ME12** (clear, flat, penetrating sealer) must be applied to the entire exterior elevation of unpainted/unsealed walls. It is intended for use on porous surfaces to protect against water penetration and to help neutralize alkaline on the surface. Alkaline causes cracking and flaking of paint and coatings.

- Allow **AQUASEAL ME12** to dry for 24 hours before top coating with **PERMASHIELD NON-SACRIFICIAL**. The approximate coverage rate: 60-110 sq/ft per gallon depending on the surface porosity. Allow the product run down 8-10 inches and backroll in all the material (Refer to product Technical Bulletin for proper application and coverage rates).

TECHNICAL DATA:

Composition	Acrylic Co-Polymer
Solids by Weight (ASTM D2369)	28% ±2
Specific Gravity (ASTM 1475)	1.032-1.044 g/cm³
Flash Point	None
Drying Time	30 minutes
Curing Time	72-96 hours
Color	Clear
Sheen	Gloss (5400) or Low Gloss (5300)
Odor	Mild
VOC Compliancy	< 30 g/L
UV Resistance	Excellent

B. **Top Coat:** **PERMASHIELD NON-SACRIFICIAL** must be applied to the specified height. Apply by brush, roller, airless sprayers or conventional spray equipment at normal painting pressure with tip size ranging from .010 to .015.

- Apply **PERMASHIELD NON-SACRIFICIAL** at 300-400 sq/ft per gallon, per coat, depending on the texture and porosity of the surface being top coated and the method of application.
- Two to three coats are recommended where markings are expected from pencils, pens and felt pens.
- Three to four coats are recommended where spray can paint may be expected.
- Apply enough coats of **PERMASHIELD NON-SACRIFICIAL** to ensure the surface is pinhole free.
- Allow 30-45 minutes in between coats. Apply succeeding coats only after the previous coating has cleared out.

C. **Remover:** **CITRUS CLEAN (9700)**, water base graffiti remover/cleaner.

- ALWAYS TEST** the removal process using **CITRUS CLEAN** on each surface type, paint coating, and graffiti stain before proceeding with entire application to ensure suitability and desired results.
- Allow the test areas to dry thoroughly before inspecting.
- Do not dilute, use-as-is over the **PERMASHIELD NON-SACRIFICIAL** coating.
- CITRUS CLEAN (9700)** is the only cleaner recommended for graffiti removal with the **PERMASHIELD NON-SACRIFICIAL**. Spray the **CITRUS CLEAN** on the graffiti and allow it to set for 2 to 3 minutes (do not allow the cleaner to dry on the surface). Then use a nylon hard bristle scrub brush or scour pad, to work the cleaner into the graffiti. Spray more cleaning solution to maintain a wet surface and to remove the dissolved graffiti. Continuous wet scrubbing is the key to removing the graffiti. After complete removal, rinse the cleaned area well with water. Do not use solvents such as M.E.K. or lacquer thinners for cleaning before using **CITRUS CLEAN**.

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GRAFFITI RESISTANT COATING 09960
PROTECTIVE COATINGS

MONOPOLE INC.
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APPLICATION:

PAINTED SURFACES:

If the surface is painted for the full elevation skip **AQUASEAL ME12** and conduct a test patch to ensure the proper adhesion and performance.

SPECIAL NOTE:

CITRUS CLEAN tends to soften **PERMASHIELD NON-SACRIFICIAL COATINGS**. This is temporary and **PERMASHIELD** will return to its original hardness when dry. For complete instructions and cautions, please refer to the **CITRUS CLEAN** technical data sheet.

DISCLAIMER:

Caution! Painted & Stucco Surfaces

PERMASHIELD GRAFFITI RESISTANT COATINGS are clear non-yellowing products and may be used over latex painted or unpainted surfaces. However, certain pigmented paint and color integrated stucco formulations contain a biocide that may create yellowing when top coated with a clear graffiti resistant coating. Yellowing can be severe and normally appears within 3-7 days of direct sunlight exposure, particularly during hot weather.

Allow freshly painted and stucco surfaces to fully cure (~1 - 2 weeks minimum for paint and 28 days for fresh stucco) before applying a clear graffiti resistant coating. Consult the manufacturer of the paint coating and/or stucco to determine the full curing time.

To ensure proper results, we require applying a small test patch on each of the different paints and stucco surfaces prior to product application. It is very important that these test patches receive direct UV exposure. Allow the test areas 4-7 days of dry time in the direct sunlight and then check for ambering. Monopole is not responsible for yellowing, whitening, discoloration, or any other consequential damages associated with the application of our **PERMASHIELD GRAFFITI RESISTANT COATINGS**. The end-user shall determine the product's suitability and assumes all risks and liability. Under no circumstances will Monopole pay labor charges

APPLICATION GUIDELINES:

- Do not apply **PERMASHIELD NON-SACRIFICIAL** to non porous surfaces.
- Do not apply **PERMASHIELD NON-SACRIFICIAL** over oil based or glossy painted surfaces.
- Allow the paint to fully cure (consult the paint manufacturer) before applying **PERMASHIELD NON-SACRIFICIAL**, otherwise it may cause paint lifting or pigment bleeding.
- **PERMASHIELD NON-SACRIFICIAL** must be allowed to cure for a minimum of 72 hours (ideally 5 days) before exposing it to graffiti attacks.
- Do not apply heavy or overlap.
- Do not roll while the coating is drying or curing.
- No rundowns. Use a dry roller to pick up excess materials running down, otherwise **PERMASHIELD NON-SACRIFICIAL** can dry looking milky or chalky.
- Apply when the surface temperature is between 55°F and 90°F. Do not apply if rain, moisture or dew is eminent within 24 hours after application.
- Do not apply if the moisture content in the wall exceeds 15%.
- Apply at the package consistency.

LEED CREDITS

PERMASHIELD NON-SACRIFICIAL qualifies to earn LEED® credits for Environmental Quality, EQ 4.2 Low-Emitting Materials, based on low contribution of VOC.

CLEAN UP:

Clean equipment with water when materials are still wet. Use a lacquer or paint thinner.

PACKAGING:

PERMASHIELD NON-SACRIFICIAL is packaged in one-gallon cans and five-gallon pails.

STORAGE:

50°F - 90°F PROTECT FROM FREEZING

SHELF LIFE:

One year in a closed container.

CALTRANS APPROVAL NUMBER: 08-09-019

The Office of Health and Safety Services has approved the use of **PERMASHIELD NON-SACRIFICIAL** by Caltrans employees.

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.