

MONOCHEM

TECHNICAL BULLETIN

PERMASHIELD®



Sacrificial Graffiti Resistant Coating



MADE IN U.S.A.

PRODUCT DESCRIPTION:

ITEM NO. 4200

PERMASHIELD SACRIFICIAL is a water based modified wax emulsion that dries to a clear, non-yellowing tough film. It shields the surface from the penetration of spray paint, marking pens, chemical attacks, crayons and lipstick into the substrate.

Tagging can be removed by using **MONOCHEM CITRUS CLEAN (9700)** or a hot water power washer. After the graffiti is removed and the substrate is damp, reapply, **PERMASHIELD SACRIFICIAL** to the stripped sections.

PERMASHIELD is also available as a NON-SACRIFICIAL and PERMANENT (10 Year Warranted for unlimited graffiti removals) Graffiti Control System. For more information please contact your distributor or our technical department.

BASIC USES:

PERMASHIELD SACRIFICIAL offers a low cost graffiti barrier. It may be used on interior or exterior, painted or unpainted vertical surfaces including: concrete, stucco, and masonry walls, highway structures, shopping malls, civic or mass transit stations, municipal facilities, factories, office buildings, apartments, schools, libraries, etc.

PREPARATION:

- All surfaces must be clean, dry (< 15% moisture), free from adhesion affecting contaminants like dirt, wax, oil, grease, scale, efflorescence, loose or peeling paint, etc.
- Cracks, gaps, seams, nail holes or other imperfections larger than 1/16" must be properly filled prior to product application.
- Concrete, stucco and plaster surfaces must be cured a minimum of 28 days prior to applying **PERMASHIELD SACRIFICIAL**.

NOTE: Red brick or stained deep colored block might show haziness after the application of **PERMASHIELD SACRIFICIAL**. This accentuation is normal. Conduct a test patch for visual and performance approvals before proceeding with the entire job.

APPLICATION & LIMITATIONS:

- Stir or shake well before use.
- Allow at least 2-3 days dry time (colder or wet weather will require 5 days) before graffiti exposure.

UNPAINTED SURFACES: Two Options:

.OPTION 1: Application With Water Repellent.

- The surface must be unsealed and moisture absorbent.
- Apply one coat of **AQUASEAL ME12** to the entire exterior elevation (corner to corner or for taller walls under the product and for the first 15 feet above the cut off line) and allow 4-8 hours to dry before the application of **PERMASHIELD SACRIFICIAL**. **AQUASEAL ME12** is used for protection against water penetration and to help neutralize the alkalinity of the surface, which causes the cracking and flaking of paint and coatings.
- Apply 2-3 coats of **PERMASHIELD SACRIFICIAL** wet-on-wet to the elevation specified by the owner or architect.
- Make sure the surface is pinhole free after the **PERMASHIELD SACRIFICIAL** is applied. If not, an additional coat is required.

TECHNICAL DATA:

Composition.....	Translucent, milky wax emulsion
Solids by weight (ASTM D 2369)	19±2%
Viscosity55 ku
Weight per Gallon.....	9 Lbs
Flash Point	None
Drying time	30 minutes
Color	Clear matte finish
VOC	Zero
L.A. Approval	Yes
Caltrans Approval Number	08-09-018
UV Resistance	Excellent
Pollution Resistance	Excellent
Weather Resistance.....	Excellent

OPTION 2: Application Without a Water Repellent.

- If **PERMASHIELD SACRIFICIAL** is applied to the entire elevation (corner to corner) of a substrate, the use of **AQUASEAL ME12** as a sealer barrier coat can be skipped.
- Apply two coats (wet-on-wet) of **PERMASHIELD SACRIFICIAL** to the entire surface elevation. Porous and textured surfaces will require a third coat.

PAINTED SURFACES:

If the surface is painted for the full elevation skip **AQUASEAL ME12** and apply 2-3 coats of **PERMASHIELD SACRIFICIAL** and conduct a test patch to ensure the proper adhesion and performance (refer to the "Caution" section of this data sheet for important information).

APPLICATION TIPS:

- Always apply a small test area on the actual job substrate prior to painting the entire surface. This will ensure that the look and performance of the coating meet the established criteria.
- Use the same method of application for the entire job.
- To prevent bleeding, surfaces damaged with graffiti need to be cleaned prior to the application of **PERMASHIELD SACRIFICIAL**.
- Apply when the temperature is between 50°F and 100°F. Do not apply if rain is eminent within 24 hours.
- For the best application, use a conventional sprayer at the normal painting pressure with a tip size ranging from .010 to .015. Do not allow the product run downs to dry on the surface. Pick up any excess material immediately with a dry roller.
- Do not apply too heavy; it will cause whitening or yellowing.
- Do not thin; apply at the packaged consistency.

COVERAGE:

Covers approximately 200-300 square feet per gallon. It will vary according to the surface texture, porosity and application methods. Porous and textured surfaces such as block and stucco will require a third coat. Two coats are required for smoother surfaces. It is essential that the surface has enough coats to be pinhole free.

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GRAFFITI RESISTANT COATING 09960
PROTECTIVE COATINGS

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UPDATED FEBRUARY 2014



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CAUTION:

PERMASHIELD SACRIFICIAL must be applied in a wet-on-wet application (within 15-20 minutes, when clear). Do not allow the first coat to dry completely before applying second coat.

LIMITATIONS:

When **PERMASHIELD SACRIFICIAL** is applied on a wall that is unprotected by an overhang it may attract dirt streaks running down from the roof top or from deposits on the top of the wall. This is a normal characteristic of "SACRIFICIAL" polymers, waxes, or vegetable based coatings.

WHEN NOT TO USE PERMASHIELD SACRIFICIAL

- 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 too heavy or the surface may appear hazy.
- Do not apply to a poorly cured, dusty or contaminated surfaces.
- 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:

Clean equipment with warm water while materials are still wet. Use a legally compliant paint thinner or stripper after the material has dried.

STORAGE & SHELF LIFE

Store in temperatures between 50°F-90°F and protect from freezing. **PERMASHIELD SACRIFICIAL** has a shelf life of two years from manufacture date in its unopened original container stored at room temperature.

Caution: Painted & Stucco Surfaces

PERMASHIELD GRAFFITI RESISTANT COATINGS are clear non-yellowing products and may be used over latex painted or unpainted surfaces. However, on rare occasions certain pigmented paints and stuccos 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.

Allowing 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 will minimize the effect if it is occurring. 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

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

CALTRANS APPROVAL NUMBER: 08-09-018

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

REMOVAL OF GRAFFITI: USING WATERBLASTING

1. Set up the pressure washer to provide a water temperature between 130-190°F at 800-900 psi pressure. Do not use pressure over 2,000 psi and avoid temperatures over 200°F.
2. Proceed from top to bottom allowing the water to heat the wall and the pressure to carry away the graffiti.
3. Allow the stripped areas to dry damp (1 hour in 80°F), then reapply a fresh coat of **PERMASHIELD SACRIFICIAL** in a uniform manner.

REMOVAL OF GRAFFITI: USING MONOCHEM CITRUS CLEAN

1. Apply **CITRUS CLEAN** or a mild legal solvent with a hand sprayer or brush to the defaced areas. Allow it to stand for 2 minutes. Agitate the surface with brush or scour pad to loosen all graffiti from the coating. Do not allow the cleaner to dry on surface (apply more **CITRUS CLEAN** if needed).
 - 1a. Warm pressure washing (130°-190°) may be required to remove stubborn ghosting.
2. Once the graffiti has been completely removed, rinse the surface immediately with water (to neutralize the cleaner) and wipe clean with a cloth.
3. Make a note of all areas in which graffiti was stripped for the reapplication of **PERMASHIELD SACRIFICIAL**.
4. Allow the stripped areas to dry damp (1 hour in 80°F), then reapply the **PERMASHIELD SACRIFICIAL** in a uniform manner. Slightly overlap the previously coated surface that was not removed by waterblasting or a remover.

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.