PERMASHIELD
GRAFFITI CONTROL BASE

PERMASHIELD BASE is a waterborne, urethane acrylic basecoat designed to promote adhesion and provide a pin-hole free surface for topcoating with the Permashield Anti-Graffiti coatings. This high performance basecoat provides excellent adhesion with fast dry and recoat times allowing projects to be completed quickly and confidently. Permashield Base can be used on most bare or previously coated vertical and horizontal surfaces.

FEATURES:
Excellent Adhesion
Seals Bare Surfaces
Eliminates Pin-Holes
Fast Dry & Recoat
Low Odor & VOC
USDA Compliant

BUILT FOR:
Interior & Exterior
Vertical & Horizontal

Topcoat with
Permashield Anti-Graffiti
Coatings or any Latex,
Epoxy, or Urethane

BEST ON:
Concrete, Masonry,
Stucco, & Stone
Wood & Composite
Non-Ferrous Metal
Fiberglass & Plastic
Tile & Glass
Kynar & Vinyl
Previous Paint

MEETS VOC REQUIREMENTS:

CAL Green	YES
SCAQMD	YES
CARB	YES
National AIM	YES
Green Seal GS-11	YES
LEED v4 v5	YES

SPECIFICATIONS:

Composition:	Urethane Acrylic
Vehicle:	Water
VOC (ASTM D6886)**:**	< 100 g/L
Solids by Weight:	Clear 34% ± 2
Solids by Volume:	Clear 31% ± 2
Shelf Life:	2 Years

AVAILABLE PRODUCTS:

MFG Codes:	6100 Clear
Finishes:	Gloss
Tint Capacity: *Waterborne Colorants*	4-6 oz / gal
Sizes:	1 Gallon, 5 Gallon

***Can be used as a Clear or Tinted as needed*

PREPARATION:

All surfaces must be cured, firm and dry. Use suitable cleaners to remove all dirt, efflorescence, oil or other contamination. Sand glossy surfaces and remove dust (See **WARNING!**) See full '*Preparation'* instructions on the following pages.

APPLICATION:

Brush:	Synthetic Bristle
Roll:	Synthetic Nap - 1/4" - 3/8"
Spray:	2000 PSI; 0.009" - 0.015" Tip

Temperature:	40°F - 90°F Air, Surface, & Material
Film Thickness:	4-6 Wet Mils 1.5-2 Dry Mils
Coverage:	200-350 Sq. Ft. / Gal
Drying Time: @75°F; 50% R.H.	30 Minutes - Touch 2-3 Hours - Recoat; *Topcoat within 24 Hours*
Thinning:	Not Recommended
Clean Up:	Water

Basecoat – 1-2 Coats:

Permashield Base

Number of coats will depend on surface profile and porosity. If pin-holes still exist after the first coat, apply a second and allow to dry before topcoating. Ensure the basecoat is completely clear before applying a second coat or topcoating.

Topcoat – 2 Coats:

Monochem Permashield Graffiti Control Coating or any Latex, Alkyd, Epoxy, or Urethane

All Surfaces:

Recoat or topcoat after 2-3 hours and within 24 hours. If 24 hours has been exceeded, reprime or sand the surface to ensure adhesion.

Application Guidance: Information provided is a general guide based on standard substrates and conditions. Jobsite conditions, environment, and application methods may affect product performance. Always perform a test sample before full application to confirm suitability. If results do not meet project requirements, contact a Monopole representative before proceeding.

See following pages for detailed preparation and application instructions.

PREPARATION & APPLICATION:

BEFORE APPLICATION

GENERAL PREPARATION: All surfaces must be cured, firm, dry and cleaned free of dust, dirt, oil, grease, wax, chalk, rust, mildew or any other contamination or condition that would adversely affect the performance of the coating. Mechanically grind or sand glossy, dense or glazed surfaces (see **WARNING!**). Protect all surrounding areas - shrubbery, plants, grass, glass, metal, glazed surfaces, etc.

REPAIRS: Complete any required structural or substrate repairs prior to application and allow repair materials to fully cure. Ensure horizontal surfaces have positive drainage or slope (minimum 1/4″ per foot) to eliminate ponding water.

PATCHING & CAULKING: Fill and seal any voids, seams, holes, or cracks greater than 1/16″ using an appropriate paintable patching material and allow to fully cure. Spot priming patched areas is recommended. Coating over flexible patch or caulking or in areas with substrate movement may cause the topcoat to crack.

MOISTURE: Ensure roofs, windows, doors, and all penetrations are properly installed, sealed, and caulked to prevent moisture intrusion. All surfaces must be dry before application. Properly seal all sides of the surface to keep moisture out. Moisture intrusion behind the coating may cause blistering or peeling.

CONCRETE & MASONRY: All surfaces must be thoroughly cured and have an adequate profile. Curing compounds, non-recoatable sealers, and densifiers must be removed or properly primed. Moisture content must be < 15% and pH < 8. Calcium chloride testing moisture testing is recommended per ASTM F1869.

WOOD: All surfaces must be unsealed and porous or properly primed. Moisture content must be < 13%. Allow tannin-rich wood to weather until tannins naturally come out of the substrate. Clean tannins from surface. If needed, apply a tannin resistant stain blocking primer prior to painting.

METAL: Remove all loose rust, mill scale, or deteriorated previous coatings by Hand Tool (SSPC-SP-2) or Power Tool (SSPC-SP-3) cleaning. Wash surface with a suitable cleaner or degreaser to remove oil and contaminants and allow to dry. Prime ferrous metal with a rust preventative primer as soon as it dries.

PREVIOUSLY PAINTED SURFACES: Remove any peeling, chalky or loose paint, sand to feather edges, and dust clean. Spot prime bare and patched areas. When making a significant color or sheen change, a primer is recommended to aid hide and appearance of the topcoat.

STAIN BLOCKING: When painting over stains or tannins, an appropriate stain blocking primer is recommended before painting.

MIXING: Mix well before use. Purchase enough material to complete your project at the same time. If additional material is needed, retain some of the original material. Intermix the material before application or touch up.

CONTAINERS AND TOOLS: Transfer material into a clean container for use. Use new or thoroughly cleaned tools. To avoid contamination, do not re-dip applicators or add used material into containers used for storage.

DURING APPLICATION

TESTING: Prior to full application, complete the preparation and apply a test patch to ensure the system chosen is appropriate for the project. If results do not meet expectations, contact Monopole Inc. for recommendations.

GENERAL PAINTING: Primer or sealer is always recommended prior to painting. Apply two separate finish coats to create even color, uniform sheen, maximum durability and easier touch-up. Maintain a wet edge while painting.

WEATHER: Apply product only when material, air, and surface temperature are within the recommendations on page 1 and will remain within that range for at least 24 hours. Temperatures must remain 5° above the dew point during application and dry time. Do not expose to rain, fog, snow or any moisture during application or dry time. Limit exposure to heavy moisture for 24-48 hours after application.

COVERAGE: May vary depending on method of application, porosity and texture of the surface. Measure estimated coverage during the test application.

FILM THICKNESS: Always follow recommendations for application thickness on page 1. Over application may reduce performance and can lead to runs, extended dry times, a soft film, cracking, or a white haze (clear coatings).

BACKROLLING: While spraying, it is recommended to follow with a wet roller to ensure an even coat and fill in porous surfaces. This will reduce pinholes, create uniform sheen and make for easier touch-up.

RECOATING: Always follow recommendations for recoat times on page 1. Recoating too soon or too long after application may reduce performance and lead to adhesion loss, improper cure or a soft film.

AFTER APPLICATION

DRYING: Dry times are based on standard conditions of 75ºF with a relative humidity of 50%. Lower temperatures or higher humidity may extend drying times. Higher temperatures may speed up drying time and shorten pot life. Provide adequate ventilation and air movement during and after application.

STORAGE: Store material at room temperature in clean, tightly sealed containers free of rollers, brushes, or other outside materials. Protect from freezing.

CURE: Coatings may require between 7-30 days after final application for full cure and maximum performance. Cure times vary depending on application and environmental conditions.

CLEANING: Wait until at least two weeks after final application to clean contaminates from the surface. Use fresh water and a small amount of mild detergent or non-solvent cleaner, if necessary. If power washing, use low pressure or wide fan tips to maintain the integrity of the coating.

WARNING! If you scrape, sand or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1- 800-424-LEAD (5323) or log on to www.epa.gov/lead.

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