

PERMASHIELD BASE®



Base Coat for PERMASHIELD PREMIUM



MADE IN U.S.A.

PRODUCT DESCRIPTION:

ITEM NO. 6100

PERMASHIELD BASE is a single component, hydrophobic, water based acrylic-urethane designed to provide a pin-hole free coating on natural substrate surfaces. A pin-hole free surface is required when using the **PERMASHIELD PREMIUM Graffiti Control System**.

PERMASHIELD BASE is designed for application over porous, textured and painted substrates such as split-face block, mammoth block, CMU, stucco, and other permeable substrates.

SURFACE PREPARATION:

Surface preparation is critical to product performance.

- All surfaces must be clean and fully cured before application. Remove efflorescence, scum, algae, mildew, curing compounds, release agents, oils, grease, and all other adhesion affecting contaminants.
- The moisture content cannot exceed 15% prior to application.
- The surface and air temperature must be between 50°F and 90°F for a proper application.

Unpainted Concrete or Masonry Surfaces: Must be structurally sound and cured for a minimum of four weeks before application. We recommend that all unpainted/unsealed concrete surfaces be sealed for the entire elevation with **AQUASEAL ME12**, penetrating water repellent, to prevent moisture from seeping in from behind the coating.

Wood: Should be in good condition and abraded to provide tooth for the coating. Fill all cracks, seams and voids with a paintable wood filler and allow it to cure. Wood containing tannin acids (redwood, pine, cedar) require the stain blocking primer. The wood moisture content must be below 13% for a proper application.

Painted Surfaces: (Acrylic Paint) Must be fully cured. Dull glossy surfaces by sanding or by using a chemical deglosser. Clean the surface by scrub washing with the solution ½ cup TSP to one gallon of warm water. Conduct a test patch (allow to dry for 4 days) to ensure the proper adhesion and appearance. Previously painted surfaces that are pinhole free do not require **PERMASHIELD BASE**.

Oil Based Paint: Apply **MONOCHEM 21** primer or remove the existing paint by sandblasting, sanding or bead blasting.

Non-Ferrous Metals (Galvanized, Aluminum, Stainless Steel): 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.

Ferrous Metals: Remove all rust and apply a rust inhibitive primer prior to the **PERMASHIELD BASE**.

*ALWAYS TEST each surface to be treated to ensure proper adhesion and the desired results. Do not dilute; use as is.

TECHNICAL DATA:

Composition	Acrylic Urethane
Solids by Weight (ASTM D2369) Clear	28% ±2
Viscosity	85 KUs
VOC Level (ASTM D2369-07)65 g/L
Flash point (ASTM D1310-82)	None, water based
Recoat	30 Minutes
Dry through	15-20 hours

Accelerated Weathering (ASTM G154), 2000 hrs	No blisters, softening or yellowing
Salt spray resistance (ASTM B 117)	No blisters, softening or chalking
Humidity Resistance (ASTM D 2247)	No blisters, softening or chalking
Water Vapor Permeance (ASTM F 1249)	+1.0 perms @0.02 in. dry film
Water Absorption Test (ASTM E 514-86)99% Repellency
Tensile strength (ASTM D412-80)	3800 psi
Abrasion resistance (ASTM D3389-80), 1000 cycles	12 mg loss
Elongation (ASTM D2240)	250+%
Hardness, Pencil (ASTM D2240)	2H
Modulus @100% elongation	2000 psi

COVERAGE:

(May vary depending the application methods and the texture and porosity of the surface).

The normal coverage rate is approximately 200-250 sq/ft per gallon, yielding 2-3 dry mils of thickness. Two coats are required to achieve a pin-hole free surface. Extremely porous or rough surfaces may require an additional coat to obtain a smooth, sound, and pinhole free surface.

The recoat time is about 2 hours. Full cure requires 36-48 hours, depending on temperature and humidity.

APPLICATION:

• **PERMASHIELD BASE** may be applied by brush, trowel, short nap roller or spray. Work the material well into all crevices and depressions. When spraying use a heavy duty electric airless sprayer with a tip size of 0.013 to 0.017. For the best results, roll the sprayed surface with a short-nap roller to produce an even, smooth surface.

• Note: Do not apply the second coat of **PERMASHIELD BASE** until the milky-ness has cleared. Allow the **PERMASHIELD BASE** 24 hours of dry time before applying **PERMASHIELD PREMIUM**.

• Refer to the **PERMASHIELD PREMIUM** technical data sheet for application instructions and to review the application procedures for the entire graffiti system.

APPLICATION PRECAUTIONS:

- Do not apply more than 5 wet mils thickness (per coat) to avoid micro blistering or hazing.
- In all applications, we require doing a test section to determine compatibility, adhesion and appearance. All surfaces must be tested and approved by the architect or project owner prior to doing the complete project.

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GRAFFITI RESISTANT COATING 09960
PROTECTIVE COATINGS

MONOPOLE INC.
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- Do not apply to surfaces containing 15% or higher moisture content.
- Air and surface temperatures must be between 50°F. and 90°F during application.
- Do not apply in windy conditions.
- Protect the surrounding areas from overspray.
- Do not apply if rain is expected within 48 hours.
- For application over previously painted surfaces, allow the paint to fully cure (at least 7 days; consult the paint's technical data sheet for exact cure time) before applying **PERMASHIELD PREMIUM**.
- Do not proceed to the PERMASHIELD PREMIUM if the surface is not pinhole free.
- Free standing surfaces: Make sure that moisture cannot penetrate into the cap area or the wall's backside (and sides of the wall if applicable). Contact our technical support for specific information.

CLEAN-UP:

Use warm water and detergent immediately after use while the material is wet.

PACKAGING:

PERMASHIELD BASE is packaged in one-gallon cans and 5-gallon pails.

ITEM NO. 6100 **PERMASHIELD BASE CLEAR BASE**

ITEM NO. 6150 **PERMASHIELD BASE WHITE BASE**

SHELF LIFE:

PERMASHIELD BASE has a one year shelf life in its original unopened container. Storage temperatures must be between 50°F and 90°F.

FIRST AID:

Eye Contact: Flush eyes with fresh water for at least 15 minutes. Call a physician.

Skin Contact: Wash skin with soap and water.

Inhalation: Get fresh air if affected by vapor or spray mist.

Ingestion: Do not induce vomiting. Call a physician immediately.

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.