



PERMASHIELD 2K POLYASPARTIC

PERMASHIELD 2K POLYASPARTIC (2000) is a high solids, fast cure polyaspartic topcoat designed for use on interior and exterior floor surfaces. This high performance coating provides maximum durability in less time than standard floor coatings making it excellent for high use vehicle and foot traffic areas that require same-day and next-day return to service. Available in a high gloss clear and custom colors.

FEATURES:

Extremely Durable
Fast Dry & Cure Time
Chemical Resistant
Hot Tire Resistant
UV & Weather Resistant
Abrasion Resistant

BUILT FOR:

Interior & Exterior
Concrete &
Prepared Metal
Floor Surfaces

BEST ON:

Garage Floors
Manufacturing &
Warehouse Floors
Commercial Kitchens
Convention Centers
Stadiums

MEETS VOC REQUIREMENTS:

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

SPECIFICATIONS:

Composition:	Aliphatic Polyaspartic Polyurea
Vehicle:	Solvent
VOC (ASTM D6886):	< 100 g/L
Solids by Weight:	90% ± 2
Solids by Volume:	88% ± 2
Shelf Life:	12 Months
Warranty:	Limited

AVAILABLE PRODUCTS:

MFG Codes:	1400
Finishes:	High Gloss
Tint Capacity:	Do Not Tint; Custom Colors Available
Sizes:	2 Gallon Kit
Component Ratio:	1:1 (Part A : Part B)

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!**)

APPLICATION:

Roll:	Phenolic Core
Squeegee:	Rubber
Spray:	HVLP Cup Gun High Pressure Airless

Temperature:	60°F - 90°F Air, Surface, & Material
Film Thickness:	14 - 16 wet mils <i>Do not apply at less than 5 wet mils</i>
Coverage:	~ 100 Sq. Ft. / Gal
Pot Life: @75°F; 50% R.H.	15-20 Minutes
Drying Time: @75°F; 50% R.H.	2-4 Hours Recoat (<i>Do not exceed 12 hours</i>) 6-8 Hours Light Foot Traffic 12-24 Hours Heavy Traffic
Thinning:	Do Not Thin
Clean Up:	Solvent (Wet Coating) <i>If coating dries, must mechanically remove</i>

Primer – 1 Coat:

Monobond 2K Epoxy (Monochem 21 / Monochem 45)

Topcoat – 1-2 Coats:

Permashield 2K Polyaspartic (2000)

Mix:

Mechanically mix at low to medium speed Part A and Part B separately for at least 5 minutes to ensure uniform consistency.

Intermix Part A and Part B. Mix an additional 5 minutes until completely incorporated and no streaking is observed. Continuously mix pigmented coatings during application.

Scrape sides and bottom of each can to ensure all material is intermixed. Do not thin or reduce this material.

Do not mix in an up-and-down motion or at speeds that whip air into the material as may result in pinholes and a shortened pot life.

All Surfaces:

Once mixed, immediately pour all material onto the floor surface.

Apply material working in small areas using cross hatch passes.

Maintain a wet edge and do not work back into areas that have started to dry. Ensure no air bubbles occur.

Apply all material within 20 minutes of mixing.

Allow 2-4 hours before recoating. Do not recoat until surface is dry to the touch. Do not exceed 12 hours if recoating.

See following pages for detailed preparation and application instructions.

Permashield 2K Polyaspartic contains isocyanates and protective equipment is required when using this product.

See the Safety Data Sheet (SDS) prior to use for full health and safety information.



PERMASHIELD 2K POLYASPARTIC

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. Sand glossy, dense or glazed surfaces (see **WARNING!**). Protect surrounding areas, shrubbery, plants, grass, glass, metal and other glazed surfaces.

CONCRETE & MASONRY: Ensure the surface has a pH < 8 prior to application. Higher pH may result in discoloration or 'burn' of the coating.

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 TSP or other suitable cleaner or degreaser to remove oil and contaminants. Apply an etching solution to bare surfaces. Rinse thoroughly. Prime surfaces as soon as it dries. Prime ferrous metal surfaces with a rust preventative primer.

PREVIOUSLY PAINTED SURFACES: Remove any peeling, chalky or loose paint, sand to feather edges, and dust clean. Spot prime bare and patched areas. Apply a full coat of primer before topcoating.

MOISTURE: All surfaces should be dry before application. Wood should have moisture content < 15%. Concrete and masonry should be thoroughly cured and have moisture content < 15%. Moisture intrusion behind the coating may cause blistering or peeling. Blistering and peeling caused by moisture intrusion is not a defect of the coating nor covered by warranty.

PATCHING & CAULKING: Caulk and fill cracks, holes, voids, etc. larger than 1/16" with a polyurethane sealant. Patching and caulking should be allowed to fully dry, then the finish coating system applied. Coating over flexible patch or caulking or in areas with substrate movement may cause cracking of the topcoat.

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 and intermix the material before application or touch up.

THINNING: Apply at can consistency. Do not thin.

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 being used for storage.

DURING APPLICATION

TESTING: Prior to full application, apply a test patch to ensure the preparation and coating system are appropriate for the project. If test patch results do not meet the needs of the project, contact a Monopole representative for recommendations.

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

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

DURING APPLICATION (Cont.)

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, or a white haze (clear coatings).

WEATHER: Apply product only when material, air, and surface temperature are within the recommendations on page 1 and will remain above that temperature 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.

RECOATING: Always follow recommendations for recoat times on page 1. Recoating too soon or too long after application may reduce performance and can lead to adhesion loss, improper cure or a soft film. If recoat times are exceeded, preparation and priming of the surface may be required to recoat.

SPECIALTY SYSTEM RECOMMENDATIONS

DECORATIVE FINISHES: Color chips, quartz, and micas can be broadcast on top of Monobond 2K Epoxy (M21/M45) while the coating is still wet. Once dry, sweep off any excess and topcoat with 1-2 coats of a Permashield 2K Polyaspartic to protect the broadcast finish.

NON-SLIP ADDITIVES: Silica sand or other clean aggregates can be broadcast on top of Monobond 2K Epoxy (M21/M45) while the coating is still wet. Once dry, sweep off any excess aggregate and topcoat with 1-2 coats of Permashield 2K Polyaspartic.

The use of aggregates, for skid resistance, is highly recommended in all floor coatings that may be exposed to wet, oily, or greasy conditions. Monopole Inc. will not be responsible for injury caused in a slip or fall situation. It is the end user's responsibility to determine the suitability and safety of our coatings for their particular application.

AFTER APPLICATION

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

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

CURE: Coatings may require up to 30 days after final application for full cure and maximum performance. Cure times vary depending on environmental conditions and air circulation.

CLEANING: Wait until at least two weeks after final application. Clean with fresh water and a cotton cloth. A small amount of mild detergent can be used, if necessary.





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PRODUCT LIMITATIONS:

Exterior Exposure: Permashield 2K Polyaspartic is UV resistant when used as a pigmented finish. If used as a clear finish, apply over other UV resistant coatings for maximum color retention. Epoxies, such as Monobond 2K Epoxy (M21/M45), by nature do not resist UV light and can discolor when exposed. It is recommended not to use Monobond 2K Epoxy (M21/M45) or other non-UV resistant finishes under a clear coating of Permashield 2K Polyaspartic.

Moisture: Exposure to moisture during the dry or cure time including but not limited to high humidity, condensation, fog, rain, snow, etc., may shorten the pot life, cause blushing, discoloration, and improper cure that may impact the overall coating performance. Permashield 2K Polyaspartic should be protected from moisture during the dry and cure time. Moisture intrusion behind the coating or hydrostatic pressure may cause blistering or peeling. Any sources of moisture intrusion and hydrostatic pressure should be addressed before coating the surface. Blushing, discoloration, improper cure, peeling or blistering due to moisture is not covered by warranty.

Temperature: Pot life, dry times, and cure times are based on standard environmental conditions of 75°F with a relative humidity of 50%. Higher temperatures and humidity will shorten the pot life of this product.

Activated Material: Once Part A and Part B have been mixed, all material must be spread onto the surfaces as quickly as possible. No mixed material should be kept in the container as it may become hot and possible smoke. No mixed material should be stored in a sealed container.

PERFORMANCE TESTS:

Hardness (ASTM D2240) Shore D	65 ± 5
Tear Resistance (ASTM D624)	400 ± 50 pli; 70 ± 8.8 kN/m

Elongation (ASTM 412)	50 ± 10%
Tensile Strength (ASTM D2370)	3,500 ± 300 psi

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.

WARRANTY: The statements made on this bulletin, product labels or by any of our agents concerning this material are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control, Monopole, Inc., does not make nor does it authorize any agent or representative to make any warranty of MERCHANTABILITY OR FITNESS for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Monopole, Inc.'s quality control standards. Any liability whatsoever of Monopole, Inc. to the buyer or user of this product is limited to the purchaser's cost of the product itself.

