



PRODUCT TECHNICAL DATA INFORMATION

PRODUCT NO.: 2100 Series Part A & B

GARAGE SHIELD SEMI-GLOSS
WATERBORNE EPOXY FLOOR COATING

PRODUCT DESCRIPTION

Richard's Garage Shield Semi-Gloss Waterborne Epoxy Floor Coating has been formulated as a high performance, water-based, two component epoxy coating for finishing interior concrete garage floors. This product offers the same performance as solvent-based two component epoxy floor coatings, is low odor, and will not lift existing coatings. **FOR INTERIOR USE ONLY!**

PLEASE READ ALL INSTRUCTIONS COMPLETELY BEFORE STARTING PROJECT!

SUGGESTED PRODUCT USE

SUITABLE FOR APPLICATION TO THE FOLLOWING PROPERLY PREPARED SURFACES:

GARAGE FLOORS * CONCRETE BLOCK * ALUMINUM * STEEL * GALVANIZED METAL
CONCRETE FLOORS * WOOD & METAL DOORS * PIPING

PRODUCT LIMITATIONS

Not for immersion service.

Prolonged exposure to direct sunlight will cause finish to fade and chalk.

Brake fluid, animal waste, and strong cleaning chemicals may cause staining or discoloration of paint film.

Some yellowing of the paint film is possible with any epoxy coating.

Discoloration or staining will not change the protective qualities or durability of the coating.

PRODUCT SPECIFICATION DATA

* COLORS:	White/Tint Base, Deep Base (Tint With 888 Universal Colorant)
* FINISH:	Semi-Gloss
* FLASH POINT:	214° F.
* METHOD USED:	T.C.C.
* COATING V.O.C.:	Not To Exceed 2.09 LB/GAL. - (250 GRAMS/LTR.)
* SOLIDS:	By Volume: 56.07% ± 2% By Weight: 71.00% ± 2%
* WEIGHT PER MIXED GALLON:	12.50 LB.
* RECOMMENDED MIL FILM:	Wet: 5.3 mils - (Estimated at 300 Square Feet Per Gallon). Dry: 3.0 mils - (Estimated at 300 Square Feet Per Gallon).
* ESTIMATED COVERAGE:	Covers approximately 250 - 350 square feet per gallon, depending on the type of application and the porosity of the surface to be painted.
* CLEAN UP:	Warm Soapy Water
* THINNING:	Clean Water
* ESTIMATED DRY TIME:	Dries to the touch and tack free in approximately 6 hours, re-coat in 24 hours, normal foot traffic in 24 - 48 hours. For full cure and vehicle traffic allow 7 days. NOTE: High Humidity Or Low Temperature Can Slow Dry & Cure Time.

PRODUCT ANALYSIS DATA

PIGMENT: 53.93%

VEHICLE: 46.07%

MORE DETAILED PRODUCT ANALYSIS DATA IS AVAILABLE UPON FORMAL REQUEST.

SURFACE PREPARATION

SURFACE PREPARATION: Sweep the floor to remove all excess dirt and debris. Any grease or oil spots should be cleaned first with a degreaser type cleaner. Clean the floor a section at a time (10' x 10') with a strong detergent using a stiff broom to scrub the surface. Thoroughly rinse with a hose and allow floor to dry completely. If necessary, use a squeegee to remove any standing water.

Bare concrete: All new concrete and masonry substrates should be at least 30 days old before painting! Test the floor for the presence of a sealer by sprinkling water onto several areas of the floor. If the water beads and does not soak in, a sealer is present and must be removed with a chemical paint stripper, a concrete floor sander, or shot blasting. All bare concrete floors should be etched with a 10% solution of Muriatic Acid. To etch the floor, use a mixture of one (1) part Muriatic Acid mixed with four (4) parts water. Be sure to wear personal protection gear (goggles, gloves, boots, etc.) and follow the manufacturer's instructions and safety precautions when working with Muriatic Acid. Working in sections (10' x 10'), apply a generous amount of the acid solution with a plastic sprinkling can, and allow the solution to effervesce until it stops reacting. Rinse the surface thoroughly with a garden hose, not allowing the acid to dry on the surface. This process should create a surface texture similar to that of 180 grit sandpaper, or the etching process must be repeated. Allow the floor to dry for at least 24 hours. Before painting, test the floor for excessive moisture by applying a 2' x 2' sheet of plastic to the floor with duct tape and allow it to set for 24 hours. If water droplets appear on the underside of the plastic, or the concrete appears wet (darker in color), the moisture content of the floor is too high and should not be painted.

Previously Painted Floors: Cracks, holes, and damaged concrete must be filled with a suitable concrete based patching material, carefully following the manufacturer's instructions. Remove any loose, cracked or peeling paint by hand scraping, sanding, wire brushing and/or power tool cleaning. Any glossy surface areas should be sanded to dull the finish. Test the adhesion of the remaining paint by cutting an X in the paint with a single edge razor blade. Apply a 5" piece of duct tape firmly over the X. Remove the tape with one quick pull. If more than 25% of the paint comes off with the tape, the old coating must be completely removed. Do not acid etch previously painted floors. Test the floor for moisture as previously outlined before painting.

WARNING! If you scrape, sand, or remove old paint, 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. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD, or log on to www.epa.gov/lead

MIXING INSTRUCTIONS

Richard's Garage Shield Semi-Gloss Waterborne Epoxy Floor Coating is formulated as a 3 - 1 ratio mix, (1 partially filled gallon and a full quart). Pour the total contents of Part B into the Part A container. Be certain to incorporate all of Part B into Part A as this effects the color and hiding. **After thorough mixing, allow product to stand for 30 minutes (induction time) before starting to paint.** Mixed material has a 1 to 2 hour pot life and should be applied during this time period. **Thinning Is Not Necessary!** However, if thinning is required, you may add clean water up to ½ pint per mixed gallon of coating. When tinting, use 888 Universal Colorant. Tint part A only.

PRODUCT APPLICATION

Richard's Garage Shield Semi-Gloss Waterborne Epoxy Floor Coating may be easily applied with a quality brush, roller, or airless spray equipment. For best results, it is recommended to apply with a nylon or polyester brush and a ½" nap roller. Two coats are recommended on bare concrete for best color and gloss uniformity. If decorative chips are to be applied, limit work to 6' x 6' sections, to make sure the decorative chips are applied to wet paint. If applying by airless spray equipment, use a 0.017 - 0.019 fluid spray tip. During spray application, the surface area should be back-rolled to insure proper adhesion. Apply when surface and ambient temperatures are above 55° F and below 90° F. **Keep From Freezing!**

PRECAUTIONS

CAUTION: KEEP OUT OF REACH OF CHILDREN! Avoid prolonged contact with skin and breathing of vapors and/or spray mists. **USE WITH ADEQUATE VENTILATION!** Where ventilation is inadequate, use a suitable respirator. When spraying this material, use an OSHA approved cartridge respirator. Use chemical safety glasses, goggles, or a face shield for proper eye protection. Wash thoroughly after handling and before eating or smoking. Close container after each use. **DO NOT TAKE INTERNALLY!**

FIRST AID: In case of skin contact, wash thoroughly with plenty of soap and water. For eye contact, flush thoroughly with plenty of water for 15 minutes, **Seek Immediate Medical Attention!** If affected by inhalation, move immediately to fresh air. If swallowed, **Do Not Induce Vomiting, Seek Immediate Medical Attention!**

ALL TECHNICAL DATA INFORMATION CONTAINED HEREIN IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. ALL WARRANTIES ARE EXCLUDED, WHETHER EXPRESSED OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SELLER SHALL NOT BE LIABLE, (DIRECTLY OR INDIRECTLY), UNDER ANY CIRCUMSTANCES FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR ANY OTHER TYPE OF DAMAGES ARISING OR RESULTING FOR ANY REASON UNDER THE SALE, HANDLING, OR USE OF GOODS SOLD. SELLER'S LIABILITY HEREUNDER, AND BUYER'S EXCLUSIVE REMEDY HEREUNDER, FOR NEGLIGENCE OR ANY OTHER REASON, IS EXPRESSLY LIMITED TO REIMBURSEMENT OF THE PURCHASE PRICE OF THE MATERIALS SOLD AFTER PROOF OF PURCHASE IS PROVIDED TO THE SELLER. NOTICE OF ANY ALLEGED FAILURE OR DEFECT IN THE MATERIALS MUST BE GIVEN TO THE SELLER IN WRITING BY CERTIFIED U.S. MAIL WITHIN 15 DAYS OF FIRST NOTICING THE PROBLEM. FAILURE TO GIVE THE REQUIRED NOTICE WITHIN THE TIME PROVIDED CONSTITUTES A WAIVER OF ANY CLAIM. THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY MISREPRESENTATION MADE BY THE DEALER.

Any additional information regarding our products and/or pricing is available through **Richard's Paint Mfg. Co., Inc.**, or through its local area **Richard's Representative.**