



EPOXYSHIELD® WATER-BASED EPOXY GARAGE FLOOR COATING (POUCH KITS)

DESCRIPTION AND USES

EpoxyShield® Water-based Epoxy Garage Floor Coating is a two component, water-based epoxy floor coating designed for finishing concrete garage floors that are in good sound condition and are free of curing agents and sealers. It is not intended for use on unsound previous coatings or floors that have a moisture problem.

Dries to a gloss finish. Solid base colour with a colour fleck finish.

PRODUCT

SKU	DESCRIPTION
374284	Grey Gloss 1 Car Kit

KIT CONTENTS

Two part Burst Pouch Technology
(US Patent Number 8,381,903 B2)

- Part B (Base) 2.74 liters
- Part A (Activator) 813 mL
- Decorative Chips
- Concrete Etch
- Instruction Sheet

PRODUCT APPLICATION

PAINTING CONDITIONS

IMPORTANT: Read the printed kit instructions completely before starting your project.

DO NOT PAINT IF THE FOLLOWING CONDITIONS EXISTS:

Sealed Concrete - Drip a small amount of water onto the floor. If the water beads, a sealer is present and paint may not adhere properly. Sealer will have to be removed before proceeding.

Poorly Bonded Paint – Remove any loose paint by sanding and scraping. Test the adhesion of the remaining paint on the surface by doing the following. With a single-edged razor blade, cut an X through the coating and down to the concrete. Apply a 10cm piece of duct tape over the X and press firmly. Then remove the tape with one quick pull. If more than 25% of the paint comes off, **DO NOT** coat the floor with EpoxyShield until the old paint is completely removed.

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.

PRODUCT APPLICATION (cont.)

PAINTING CONDITIONS

Moisture in the Concrete - Apply a 61cm x 61cm sheet of plastic (such as a heavy-duty garbage bag or 1 gallon plastic storage bag) to an area of the bare concrete garage floor. Tape down the edges with duct tape and allow to set for 24 hours. If water droplets appear on the inside of the plastic or if concrete appears wet (darker in colour), moisture is trapped in the concrete and Rust-Oleum Moisture Stop should be used prior to applying a coating.

Loose/Damaged Concrete - If the concrete is loose, chipping (spalled), the coating will not perform properly. Repair damaged areas before applying EpoxyShield.

SURFACE PREPARATION

Preparation is critical to performance.

Allow newly poured concrete to cure for a minimum of 28 days prior to coating. Remove oil spots with a scrub brush and an appropriate cleaner & degreaser (sold separately). Scrub thoroughly, then rinse. Repeat as necessary to completely clean.

PREVIOUSLY COATED FLOORS: Make sure the floor is clean and dry. Use a wire brush to remove any loose or peeling paint or stain. If floor is sealed, the sealer will have to be removed. To ensure proper adhesion, scuff sand the entire surface.

BARE CONCRETE: Concrete Etch - Mix one bag of concrete etch per two gallons of water (do not add concrete etch directly to paint). Mix until dissolved. This solution contains a mild citric acid. **Note: Do not use** muriatic acid. For best results, use a plastic watering can to evenly distribute solution. If product will be used on a basement floor, do not use etch. Instead, prepare floor with TSP solution or TSP substitute.

Pre-wet the floor using a hose. Remove pooled water with a squeegee or broom to avoid leaving puddles. Floor should be damp but not wet. Spread the etch mixture over a 3m x 3m section of the floor. Scrub vigorously with a stiff bristle brush to loosen dust and dirt. While working, keep the entire section wet until the entire section has been etched and rinsed. Rinse each section thoroughly before starting the next section. For best results, use a foam squeegee to remove the rinse water from the surface and to move dirt and contaminants out of the garage. Repeat twice before continuing to the next section.



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PRODUCT APPLICATION (cont.)

SURFACE PREPARATION (cont.)

Once all sections are completed, rinse and squeegee the entire garage floor to remove any etch that has been tracked on previously etched areas. A wet/dry vacuum can also be used to eliminate excess water, dirt and contaminants. Do not leave pooled water on the floor. The etch will not discolour driveways or harm grass or plants if rinsed thoroughly. Wipe your fingers over the clean, dry floor. If you see any dust or powder on your fingers, repeat the rinsing & scrubbing until the floor is clean. If your fingers remain clean, continue to the next step. Allow the floor to dry completely.

Note: If the floor is not thoroughly cleaned and rinsed, the coating may not adhere properly.

MIXING

Thoroughly mix the materials by shaking the pouch back and forth and squeezing the edges and corners toward the center of the pouch.

Combine the two components by placing the pouch on the ground and rolling it from the part B side towards the part A side like a tube of toothpaste. This will create pressure in the part B side and force the middle seal to burst, allowing the two components to mix together. Thoroughly mix the materials by shaking the pouch back and forth and squeezing the edges and corners toward the center of the pouch. Mix for 2-3 minutes.

Note: When concrete is coated, it typically produces a smoother surface than bare concrete and can become slippery when wet. To create a slip resistant surface, add Rust-Oleum Anti-Skid Additive (sold separately) to the mixed coating prior to application (follow directions on package for use), or top coat with EpoxyShield Premium Clear Floor Coating with the Anti-Skid Additive included.

APPLICATION

Apply only when air, material, and surface temperatures are between 15-29°C and the surface temperature is at least 3°C above the dew point. The relative humidity should not be greater than 85%. Once the material is thoroughly mixed, use scissors to cut a corner off the pouch. Pour the mixed material from the pouch into a roller tray. Cut in the perimeter of the floor along the wall, or other areas where a roller cannot reach, using a brush or edger before beginning roller application. Use a synthetic 13mm nap roller cover on a 230mm roller frame to apply an even coat of EpoxyShield onto the surface. Limit the application to 1.2m x 1.2m sections at a time to make it easier to distribute the coloured chips onto the freshly coated surface. Scatter the decorative chips up and away from you so they land flat on the wet paint, then continue on to the next section.

PRODUCT APPLICATION (cont.)

APPLICATION (cont.)

Note: Fresh paint can be applied over the loose chips lying outside the previously painted area. Maintain a wet edge to prevent lap marks and gloss differences. Only one coat is necessary under most circumstances. EpoxyShield must be used within 1 to 2 hours of initial mixing.

DRY TIME

Dry time is based on 21°C and 50% relative humidity. Allow more time at cooler temperatures. The surface should be ready for light foot traffic in 12-16 hours. Allow 24-48 hours before placing heavy items and for normal foot traffic. Allow 3 days for full cure and vehicle traffic.

CLEAN-UP

Wash tools and equipment with warm water and a mild detergent immediately after use. To remove dried product use lacquer thinner. Clean up drips or spatters IMMEDIATELY with water as dried paint is very difficult to remove. Properly dispose of all soiled rags.

	TECHNICAL DATA	ESH-51
	EPOXYSHIELD® WATER-BASED EPOXY GARAGE FLOOR COATING (POUCH KITS)	

If temperature is 16-21°C Allow product to stand after mixing	
Start brushing (trimming edges):	30 minutes after mixing
Start rolling:	45 minutes after mixing
Use all mixed product within (pot life):	2 hours after mixing
Best time to paint is mid-afternoon (after 1 PM) to ensure best curing conditions and maximum pot life	

If temperature is 22-27°C Allow product to stand after mixing	
Start brushing (trimming edges):	10 minutes after mixing
Start rolling:	15 minutes after mixing
Use all mixed product within (pot life):	1.5 hours after mixing
Best time to paint is early morning (before 9 AM) to ensure best curing conditions and maximum pot life	

If temperature is 27-29°C Allow product to stand after mixing	
Start brushing (trimming edges):	Immediately after mixing
Start rolling:	5-15 minutes after mixing
Use all mixed product within (pot life):	1 hour after mixing
Best time to paint is early morning (before 9 AM) to ensure best curing conditions and maximum pot life	

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PHYSICAL PROPERTIES

		WATER-BASED EPOXY GARAGE FLOOR COATING
Resin Type		Amine Cured Epoxy
Pigment Type		Varies with colour
Solvents		Ethylene Glycol Monopropyl Ether, Water
Weight	Per Gallon	10.50 – 10.60 lbs.
	Per Liter	1.25 – 1.27 kg.
Solids	By Weight	62.6 – 63.3%
	By Volume	52.6 – 52.8%
Volatile Organic Compounds		<50 g/l (0.42 lbs./gal.)
Mixing Ratio		3.36:1 (Base to Activator by volume)
Induction Period		Varies with temperature- See chart in directions
Pot Life @ 70-80°F (21-27°C) and 50% Relative Humidity		Varies with temperature- See chart in directions
Recommended Dry Film Thickness (DFT) per Coat		3.0-3.5 mils (75-87.5µ)
Wet Film to Achieve DFT (Unthinned material)		6.0-7.0 mils (150-175µ)
Practical Coverage at Recommended DFT (assumes 15% material loss)		Approximately 19-23 m ² /l per pouch
Dry Times based on 21-27°C and 50% Relative Humidity	Foot Traffic	24 hours
	Vehicle Traffic	3 days
Shelf Life		5 years
Flash Point		93°C Activated material
Safety Information		For additional information, see SDS

Calculated values may vary slightly from the actual manufactured material.

*Activated material.

The technical data and suggestions for use contained herein are correct to the best of our knowledge, and offered in good faith. The statements of this literature do not constitute a warranty, express, or implied, as to the performance of these products. As conditions and use of our materials are beyond our control, we can guarantee these products only to conform to our standards of quality, and our liability, if any, will be limited to replacement of defective materials. All technical information is subject to change without notice.



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