SlipDoctors®
LEADERS IN FLOOR SAFETY

2K EPOXY FLAKE FLOOR KIT

TECHNICAL DATA SHEET

SlipDoctors® 2K EPOXY FLAKE FLOOR KIT is a three-step epoxy garage floor coating kit designed to elevate your garage flooring and provide an industrial-grade epoxy flake, anti-slip coating. Ideal for use on horizontal concrete floor surfaces found in garages, hobby shops, warehouses, auto-service centers, and other covered areas. Available in 1-, 2-, and 3-car garage kits for maximum flexibility.

Special Features
- Excellent Chemical & Water Resistance
- High Gloss
- Easy to Clean
- Abrasion, & Impact Resistant
- Non-chalking & Non-yellowing

Suggested Uses
- Garage Floors
- Basements
- Auto-Service Areas
- Warehouse Floors
- Factories & Plants



Product Characteristics and Benefits

Surfaces	Commercial/Industrial Areas: Garage Floors, Concrete, Warehouses, Wet Process Areas, Chemical Processing Plants, Manufacturing Facilities, and Food Processing Areas. Designed for use on horizontal concrete floor surfaces found in covered buildings.
Color	**Base Coat:** Gray **Top Coat:** Clear **Flake:** Options Available
Finish	High Gloss
Components	Base Coat: Two-Part High Solids Epoxy Coating Decorative ¼" Epoxy Flake Top Coat: Two-Part Polyurethane Coating w/ Clear Additive
Thinning	None
Coverage	See Chart on Page 2
Coats	Kit includes enough product to apply one (1) coat Base Coat and two (2) coats Top Coat. Non-slip Additive added to Top Coat.
Mode of Application	Base Coat: 3/8" Nap Roller Flake: Broadcast by Hand Top Coat: Squeegee
Application Temperature	Kit should be installed when air temperatures are between 50-90°F (10-32°C) and humidity between 50-90%. Do not coat during rain events. (Slab temps not to exceed 5°F (-15°C) below minimum air temperatures, respectively.)
Pot Life	Base Coat: Three (3) hours @ 75°F (23°C) Top Coat: Four hours @ 75°F (23°C)
Dry Time	48 Hours, depending on temperature/humidity levels
Recoat Time	@ 75°F (23°C) - Minimum: 8 Hours Maximum: 24 Hours

Precautions & Technical Support

Please refer to Safety Data Sheet (SDS) for detailed Precautions and First Aid Instructions. 2K Epoxy Flake Floor Kit Safety Data Sheet can be found at www.slipdoctors.com

Technical Support:
Please contact SlipDoctors at support@slipdoctors.com

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Product Characteristics and Benefits	
V.O.C.	3.25 LBSGL (389 GMS/L)
Water/Stain Resistant	Yes
Chemical Resistant	Yes
Storage	Prior to install, store product in a cool, dry environment out of direct sunlight. Unused material should be stored in a cool, well-ventilated place. Store locked up.
Shelf Life	Minimum 12 months
Warranty	2 Years
Removal	Commercial blasting and grinding
Disposal	Contact a licensed professional waste disposal service to dispose of this material.
Fire Fighting Instructions	In case of fire, use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

COVERAGE & PRODUCT QUANTITIES					
GARAGE KITS	**SINGLE KIT NO FLAKES**	**1-CAR GARAGE**	**2-CAR GARAGE**	**3-CAR GARAGE**	**4- CAR GARAGE**
SQ FT	UP TO 100 SF	UP TO 300 SF	UP TO 500 SF	UP TO 750 SF	UP TO 1000 SF
BASE COAT PRIMER	1	3	5	7	10
FLAKE (40 LB BOX)	0	1	2	2	3
TOP COAT + ADDITIVE	1	3	5	7	10

ADDITIONAL ITEMS NEEDED - SOURCE THESE ITEMS LOCALLY	
Preparation Medium	Tarp
1 quart Xylene or MEK solvent for product clean-up	Cloth Rags
Cordless Drill	Skin, Eye, and Lung Protection
Broom Handle	Either a Plastic Pole Sanding Head or a 14” Wide Floor Scraper
Flat Squeegee	

SURFACE PREPARATION & APPLICATION INSTRUCTIONS

STEP 1: CONCRETE FLOOR PREP **MOST IMPORTANT STEP**

- All dirt, oil, dust, foreign contaminants, and laitance must be removed to assure a trouble-free bond to the substrate. Diamond Grind concrete floor.
- TECH TIP: If renting diamond-grinding equipment, request a diamond grit between 15 and 30. EDCO® & Husqvarna® brands are very effective and are commonly found at rental locations. “Planetary” style machines are the most efficient.
- As an alternative to diamond-grinding, concrete etching can be sufficient if the concrete does not have a previous coating. Contact SlipDoctors for Concrete Etching treatment or source at your local hardware store. Concrete will need 80 grit – 120 grit profile. More than one etch may be needed.

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SURFACE PREPARATION & APPLICATION INSTRUCTIONS

STEP 2: APPLYING BASE COAT AND FLAKES

- Mix Base Coat: Prior to mixing, make sure the mixing pail (4-5 gallon pail) is clean and free of any debris. Pour and mix (1) Can Base Coat Part A with (1) can Base Coat Part B in the clean mixing pail. Mix well using a proper mix wand attached to a drill, making sure to scrape the sides and bottom of the mixing pail thoroughly. Any unmixed liquids (check the sides of the pail) will not cure properly. Mix for approximately 3 minutes. Do not use partial kits. This product has a working life of approximately 30-35 minutes at 75°F when applied correctly.
- Pour a ribbon of the mixed epoxy onto the prepared surface. Meter it out roughly using a flat squeegee, then roll coating out with a 3/8" nap roller. Using a small brush to cut in around the edges and areas where the roller will not reach. As you roll out the mixed material, you can begin broadcasting flakes into the wet epoxy. To do this, spread the flakes by tossing them slightly up into the air and allow them to settle into wet epoxy as you progress.
- Do not roll over the top of the paint flakes once they are on the floor. Estimate the flakes to use to ensure they are evenly spaced and to prevent running out of flakes before the end of the coated floor. The objective is to completely cover the epoxy with flake. We recommend 50 lbs of color flake for every 500 sq ft.
- THIS PRODUCT WILL CURE PREMATURELY IN THE BUCKET IF IT IS NOT POURED OUT ASAP!
- When applied at 70°F, this material will be ready for recoat in approximately 10-12 hours. It is best to test the coating before recoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then recoat or application of the Top Coat can begin. Always remember that colder temperatures will require more cure time for the product before recoating or top coating can begin. DO NOT WAIT LONGER THAN 24 HOURS TO APPLY THE NEXT COAT WITHOUT FURTHER PREPARATION STEPS.
- TECH TIP #1: You can walk into the wet coating using a pair of "spike shoes" that will allow you to apply the flakes after rolling to make the process easier.
  BE CAREFUL! Floor will be slippery even when wearing spike shoes!
- TECH TIP #2: If your coating "rises" above the flakes causing a wet spot, just add more flakes to that area until the coating settles.
- TECH TIP #3: Consider this coat the "glue" for the flakes. It does not have to look pretty, just completely coated.
- TECH TIP #4: NEVER WORK FROM A MIXING BUCKET! ALWAYS APPLY DIRECTLY TO THE FLOOR IN RIBBONS!



STEP 3: APPLYING TOP COAT

- Once the Base Coat has cured and the floor is not sticky/tacky (approximately 10-12 hours), it is time to remove the excess flakes.
- Using an electric blower or a good push broom, begin gathering up the loose flake. This flake can be captured and used on a future project. Once the loose flake is gathered, the floor should be lightly sanded or scraped using light pressure. If sanding: use a drywall-style plastic pole sander with an 80 grit sanding screen. If scraping, use a 14" wide steel floor scraper. Always keep pole at a low angle to the floor. Larger spaces can be "buffed" in lieu of sanding/scraping using a buffer with a stiff brush head.
- The floor should be sanded or buffed in a north-south direction and then again in an east-west direction. Once fully sanded or scraped, the loose and broken flake should be gathered and discarded.
- TECH TIP: If any areas are "bald" of flake, dab area with clear coating and place enough flake to cover. Do this 15-20 minutes before the clear Top Coat application.
- TOP COAT – 1ST COAT: Top Coat comes in a 1.5 gallon kit. Using a new mixing bucket, mix Top Coat Part A, Top Coat Part B, and Clear Additive and mix well. Pour mixed material on the floor in a bead pattern similar to Base Coat. Apply using a 3/8" nap roller in the same manner as Base Coat. Estimated coverage on the 1st coat is 300-330 sq ft per 1.5-gallon kit.
- TOP COAT – 2nd COAT: Allow 1st coat to dry for 12 hours. Then, using a second Top Coat 1.5-gallon kit, mix components as previously described. Apply the 2nd coat of Top Coat in the same manner as the 1st coat. You will get much better coverage on the 2nd coat. Estimated coverage on the 2nd coat is 360-400 sq feet per 1.5-gallon kit.



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SAFETY PRECAUTIONS

Read the entire product label, Technical Data Sheet (TDS) & Safety Data Sheet (SDS) before using.

SILICA DUST WARNING	Sanding, grinding, or cutting concrete can release dust containing high levels of crystalline silica. Prolonged or repeated exposure can lead to a disabling and often fatal lung disease called silicosis. Some studies also indicate a link between crystalline silica exposure and lung cancer. Wear a NIOSH-approved respirator to control silica dust exposure and clean up carefully with a HEPA vacuum and/or water.
SOLVENT WARNING	Both products used are solvent based. It is recommended that the user use respirator protection during the installation of these items and ventilate the workspace during install and curing. Wear a NIOSH-approved, dual cartridge, respirator to protect against inhalation hazards from solvent vapors. Consult the Safety Data Sheet for more safety precautions. Not recommended for enclosed, non-ventilated spaces. Do not spray or atomize these products.
SKIN & EYE CONTACT WARNING	AVOID CONTACT WITH SKIN AND EYES. WEAR GLOVES AND EYE PROTECTION. For skin contact, wash affected area with soap and water and rinse/shower well. For eye contact, flush with cold water for 15 minutes. If swallowed, do not induce vomiting. Rinse mouth and contact a physician immediately. KEEP OUT OF REACH OF CHILDREN.

POTENTIAL ISSUES

CONDITION	POTENTIAL ISSUE	SOLUTION
Moisture issue or suspected issue	Water vapor trapped beneath a coating can possibly delaminate coatings or create bubbles.	Test prior to coating. If moisture if found, do not proceed with coating without mitigating issue.
Weak, sandy, or laitance-riddled concrete surface	Weak sandy or laitance-riddled surfaces may eventually cause delamination.	Grind concrete through the weak area. Test for strength or do not apply coating.
Door sills/thresholds found beyond garage door	Coated sills may be exposed to moisture from exterior sources, possibly causing delamination from water vapor.	End coatings at garage door.
Holes or Voids	Holes or Voids may trap dirt/debris.	Fill small holes with PC-1000 Epoxy Mortar.

DISCLAIMER & LIMITED PRODUCT WARRANTY

SlipDoctors shall not be liable for any injury, loss, or damage, direct or consequential, arising out of the use or the inability to use the product. Before application, Buyer shall determine the suitability of the product for the intended use, and Buyer assumes all risk and liability whatsoever in connection therewith. Product testing is always recommended before full application. The Buyer assumes all risks and responsibility associated with disposal of the product. SlipDoctors cannot eliminate all possibilities of slip-and-fall accidents.

All properly installed SlipDoctors products are guaranteed to increase the coefficient of friction of the surface for two (2) years, provided appropriate surface preparation and cleaning procedures are followed and no contaminants are present. SlipDoctors shall, at its option, replace only the product. This warranty does not apply to any services or labor provided by the customer, contractors, or other service technicians. This warranty is limited to replacement of the product only. This warranty does not cover (i) color differences, normal color fading, gloss loss, loss of traction, or issues caused by exposure to sunlight, wind, or water; (ii) abrasion or burnishing due to scrubbing, traffic, or other wear and tear; (iii) cracking, chipping, blistering, or peeling caused by structural expansion and contraction, settling, or other movement of building components, by excessive heat exposure, or by water intrusion; (iv) film degradation or discoloration due to mold or mildew; or (v) damages or bonding issues resulting from improper surface preparation or coating application, extraordinary or catastrophic events, or failure to perform regular maintenance.