



# H&C® SHIELD-CRETE® WATER-BASED EPOXY CLEAR COAT KIT

## PRODUCT DESCRIPTION

**H&C® SHIELD-CRETE® WATER-BASED EPOXY CLEAR COAT** on its own or as a final step in the system, offers extra protection and shine for your garage floor and seals in Deco-Flakes. Applies milky white for easy application, dries crystal clear.

## FEATURES & BENEFITS

- Water-Based formulation for easy application and cleanup
- Gloss finish for added shine
- Hard, durable surface, resists wear and peeling
- Superior adhesion, resists hot tire pick-up
- Fights oil and chemical stains
- Interior use only

## RECOMMENDED USES

In addition to garage floors, H&C® SHIELD-CRETE® EPOXY CLEAR COAT can be used on all interior concrete flooring including basement floors, laundry room floors, storage areas, commercial floors and warehouse floors.

## COVERAGE RATES

**Single Kit:** Up to 200-250 square feet -- or a typical one-car garage --depending on the porosity of the substrate.

## JOBSITE TEST SECTION

Due to the wide variety of substrates, preparation methods, application methods and environments, it is important to create a test sample.

## LIMITATIONS

Do not apply H&C® SHIELD-CRETE® EPOXY CLEAR COAT to outdoor surfaces exposed to direct sunlight. UV exposure may cause the color to fade over time. WARNING surface can become slippery when wet. To reduce the risk of slippage please add H&C® SHARKGRIP® SLIP-RESISTANT ADDITIVE for additional protection.

## SURFACE PREPARATION

**Bare Concrete:** Newly poured concrete should cure at least 28 days. Surface must be clean, dry and free of grease, oil and other contaminants. Concrete surfaces require porosity and profile. To test absorption, spray various sections of the concrete to be coated with water. If the water does not absorb within 10 seconds, the concrete is not porous. Mechanical profiling or acid etching the surface using H&C® CONCRETEREADY® Etching solution following label instructions is required. After proper profiling the surface should feel 120-grit sandpaper or rougher. If not, profile again. For best performance, grind the surface to the porosity of 120-grit sandpaper. Do not apply Shield-Crete until all surfaces are porous. Allow all surfaces to dry at least 24 hours before applying your H&C Shield-Crete system. Prepared concrete must have a pH of 6-10.

**Existing and Previously Painted Concrete:** It is not recommended to apply H&C® SHIELD-CRETE® EPOXY CLEAR COAT over an existing or previously coated surface. If the existing coating is in sound condition, clean surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply H&C SHIELD-CRETE to a test area, allowing it to dry one week before testing adhesion. Test adhesion in accordance with ASTM D 3359, standard test methods for measuring adhesion by tape test. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest for adhesion. If the coating is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

**\*WARNING:** Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. To avoid exposure to lead dust, wear proper protective equipment, such as a properly fitted respirator (NIOSH approved) and follow proper containment and cleanup procedures. For more information, call the National Lead Information Center at 1-800-424-LEAD (in U.S.) or contact your local health authority.

**Previously Coated SHIELD-CRETE® Epoxy Floors:** Make sure SHIELD-CRETE® EPOXY is firmly adhered to the floor. All loose and peeling material should be scrapped or ground. Clean all bare, exposed concrete areas with the cleaner degreaser provided. Etching or grinding these bare areas should be done to assure proper adhesion of H&C® SHIELD-CRETE® Epoxy. All remaining SHIELD-CRETE® epoxy should be cleaned with the H&C® CONCRETEREADY Cleaner Degreaser, following manufacturer's instructions, and scuff sanded with 60-80 grit sandpaper or screened on a sanding pole or orbital buffing equipment. Vacuum, sweep or mop off all sanding dust that is created, as this dust can prevent proper adhesion of the SHIELD-CRETE® system.

## **TOOLS REQUIRED**

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- High quality 3/8-inch nap woven roller cover
- Extension pole and roller frame
- Paint tray and liner
- Eye Protection
- Respiratory Protection
- Gloves

## **APPLICATION INSTRUCTIONS**

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H&C® SHIELD-CRETE® EPOXY should be applied when temperatures are between 50° and 90°F and the relative humidity is less than 80%.

**Mixing:** Thoroughly mix Shield-Crete Epoxy part A and part B separately in their individual cans. Next, pour part B contents into part A container. Thoroughly mix the two components together. If mixing with a stir stick, mix for 3-4 minutes. If mixing using a low speed drill, mix for 2-3 minutes. Do not use a high-speed mixer, since this will create unwanted air bubbles. Improperly mixed resins may not harden or may result in color variations when applied. Follow the Physical Properties section on this data page for proper induction and pot life times. Be sure to scrape the sides and bottom of the containers to assure that all material is properly mixed. Improperly mixed resins may leave soft spots or may cause color variation when applied.

**Clear Coat Kit:** SHIELD-CRETE® EPOXY CLEAR COAT provides an evenly uniform, gloss finish for SHIELD-CRETE epoxy floors. SHIELD-CRETE® Clear Coat should always be applied when the deco flakes are installed. Apply the Clear Coat when the SHIELD-CRETE® coating is dry to the touch and not tacky. The coating should be applied with a 1/4 inch -3/8-inch nap roller and may be periodically re-applied to maintain a high gloss finish. Product will appear milky white when being applied, then dry clear.

For Commercial or Industrial applications of SHIELD-CRETE Epoxy, H&C™ CLEARPROTECT™ High Performance Industrial Clear or H&C CLEARPROTECT Water Based 2-Part Polyurethane Satin or Gloss may be applied as an alternative to SHIELD-CRETE Clear Coat Kit for a durable clear coat finish.

## **CLEANUP**

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Clean tools and any spills or spatters immediately using soap and warm water. Sticky resin or residue on hands can be removed with isopropyl alcohol. Fully cured H&C SHIELD-CRETE Epoxy Clear Coating can only be removed with industrial paint strippers or through mechanical methods, such as grinding or sanding.

## MAINTENANCE

Clean light- to medium-soiled surfaces with a 50/50 solution of H&C® CONCRETEREADY Cleaner Degreaser and water or a good-quality neutral- based cleaner/degreaser, following the manufacturer's directions for use. Use H&C CONCRETEREADY Cleaner Degreaser full strength for heavily soiled areas, such as oil and grease stains.

## PHYSICAL PROPERTIES

Typical Physical Properties and Characteristics		
Property	Test Method	Value
Dry Time (@ 77°F, 50% RH)	Dry-to-touch	45 minutes
	Foot traffic	18 hours
	Heavy traffic	72 hours
Recoat		6 hours min., 72 hours max.
	Full cure	7 days
Flash Point	ASTM D3828	>230°F (110°C), Mixed
VOC	EPA Method 24	<50 g/L*
Perm Rating	ASTM D1653	2 grains (hr. ft <sup>2</sup> in Hg)
Sheen	ASTM D523	Gloss
Solids by Volume Solids by Weight	NVV	41% ± 2%, mixed
	ASTM D2369-04 (@ 50°F, 50% RH)	50% ± 2%, mixed None
Induction Time	(@ 77°F, 50% RH)	None
	(@ 50°F, 50% RH)	8 hours
Pot Life	(@ 77°F, 50% RH)	5.5 hours
Shelf Life (unopened)		Part A: 24 months Part B: 36 months

## KIT CONTENTS

- Part A Epoxy
- Part B Hardener
- Slip Resistant Additive
- Stir Stick
- Instructions

## ORDERING INFORMATION

Shield-Crete Clear Coat Kit	20.117000-99	035777913277	651114795
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## DECO-FLAKES ORDERING INFORMATION

Description	SKU#	UPC#	SMIS#
Shield-Crete Deco-Flakes Blue Chip Creek	20.105100-99	035777914649	651118176
Shield-Crete Deco-Flakes Salt & Pepper	20.105200-99	035777914656	651118184
Shield-Crete Deco-Flakes Earthy Mosaic	20.105300-99	035777914663	651118192
Shield-Crete Deco-Flakes Pebble Beach	20.105400-99	035777914670	651118200
Shield-Crete Deco-Flakes 25 Lb Bag Salt & Pepper	20.105500-99	035777914687	651118218
Shield-Crete Deco-Flakes 25 Lb Bag Pebble Beach	20.105600-99	035777914694	651118226

## CAUTIONS

### H&C SHIELD-CRETE® GARAGE FLOOR EPOXY KIT- (20.117000)

**DANGER!** THIS KIT CONTAINS THE FOLLOWING CHEMICALS THAT MAY BE HARMFUL IF MISUSED: AMINES, EPOXY RESIN AND TRISODIUM PHOSPHATE DODECAHYDRATE. READ CAUTIONS ON INDIVIDUAL CONTAINERS CAREFULLY. KEEP OUT OF REACH OF CHILDREN.

### Part A EPOXY COATING – (21.104500)

**WARNING! CONTAINS EPOXY RESIN. KEEP OUT OF THE REACH OF CHILDREN.** Causes eye, skin, nose and throat irritation. May cause allergic skin reaction. Harmful if swallowed. **USE ONLY WITH ADEQUATE VENTILATION.** Avoid breathing vapors, spray mist, or sanding dust. If painting indoors, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness, or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Close container after each use. **DO NOT TAKE INTERNALLY. WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **FIRST AID:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention immediately. \* Wash clothing before reuse. Thoroughly clean contaminated shoes. **IF INHALED:** If affected by vapor or spray mist, move to fresh air. If breathing difficulty continues, get medical attention. \* **IF SWALLOWED:** Do not induce vomiting. Get medical attention immediately. \* Call poison control center, hospital emergency room or physician immediately

**Part B EPOXY COATING HARDENER – (21.104600)**

**DANGER! CONTAINS AMINES. KEEP OUT OF THE REACH OF CHILDREN.** Causes eye and skin burns. May cause allergic skin reaction. Causes nose and throat irritation. Harmful if swallowed. **USE ONLY WITH ADEQUATE VENTILATION.** Avoid breathing vapors, spray mist, or sanding dust. If painting indoors, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness, or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (**NIOSH** approved) during and after application. Follow respirator manufacturer's directions for respirator use. **DO NOT GET IN EYES, ON SKIN OR CLOTHING.** Wash thoroughly after handling. Close container after each use. **DO NOT TAKE INTERNALLY. WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **FIRST AID:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention immediately. \* Wash clothing before reuse. Thoroughly clean contaminated shoes. **IF INHALED:** If affected by vapor or spray mist, move to fresh air. If breathing difficulty continues, get medical attention. \* **IF SWALLOWED:** Do not induce vomiting. Get medical attention immediately. \*Call poison control center, hospital emergency room or physician immediately.

**SLIP-RESISTANT ADDITIVE- (21.102600)**

**CAUTION! CAUSES EYE IRRITATION. CAUSES SKIN IRRITATION. RESPIRATORY IRRITANT. DUST MAY CAUSE EYE AND RESPIRATORY IRRITATION. DUST MAY FORM EXPLOSIVE**

**MIXTURE IN AIR.** Avoid breathing dust. Avoid contact with eyes and prolonged or repeated contact with skin. Use protective clothing and a **NIOSH** approved respirator. Do not use near sparks or open flame or any type of ignition source. Wash thoroughly after handling. Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (**NIOSH** approved) or leave the area. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

**DECO-FLAKES – (SOLD SEPARATELY)**

**CAUTION! MAY CAUSE EYE, SKIN, AND RESPIRATORY IRRITATION.** Use only with adequate ventilation. Avoid breathing dust or wear respiratory protection (**NIOSH** approved). Avoid contact with eyes and prolonged or repeated contact with skin. Wash thoroughly after handling. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water for 15 minutes and get medical attention. For skin contact, wash thoroughly with soap and water. In case of respiratory difficulty, provide fresh air and call physician. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

### **LIMITED WARRANTY**

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Seller's and manufacturer's only obligations shall be to replace such quantity of product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential; arising from the applicator's inability to use the product for his/her intended use. The user assumes all risk and liability.

### **TECHNICAL SERVICES**

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The information and recommendations set forth in this product data sheet are based on tests conducted by or on behalf of H&C Products Group and The Sherwin-Williams® Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your H&C or Sherwin-Williams representative to obtain the most recent product data sheet.

For technical assistance, call 1-800-867-8246 or visit [www.hcconcrete.com](http://www.hcconcrete.com).