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H&C®

SHIELD-CRETE GARAGE FLOOR EPOXY

PRODUCT DESCRIPTION

H&C® Shield-Crete is a low VOC, two-part epoxy that provides long lasting protection for both covered exterior and interior concrete applications.

* Contents: This kit contains one container or Cleaner/Degreaser, **Shield-Crete** Part "A" and Part "B" resins, one container of decorative chips and one container of non-skid additive.

Features:

- Easy application after minimal surface preparation
- Solvent-free formula provides easy soap and water cleanup.
- Resists common chemical agents and is stronger than many industrial coatings
- Resists chemical damage caused by gasoline, brake fluid, standing water and battery acid

Recommended Uses:

- Garage Floors
- Basement Floors
- Laundry Rooms
- Storage Areas
- Covered Patios and Landings**
- Warehouse Floors
- Commercial Floors

* Acceptable for use in high performance architectural applications.

***Shield-Crete** may be applied as a solid color or with decorative flakes to provide an attractive, stone-like finish. An optional clear **Glaze Coat**, not provided in the standard **Shield-Crete** kit may also be applied to provide additional durability.

Exposure to direct sunlight will cause this product to fade and chalk prematurely. A coat of **Shield-Crete Glaze will slow this fading and chalking.

CHARACTERISTICS

Color:

Four package colors (Pewter, Beige, Ivory, Brick Red, Jade Green, Royal Blue, Night Sky, Safety Yellow).

Recommended Spreading Rate per coat:

| | |
|---------------|--------------------|
| Wet Mills: | 7-5 |
| Dry Mills: | 3.2-2.3 |
| Coverage: | 250 sq. ft per kit |
| Sweat in Time | N/A |
| Pot Life | 3 hours |

*Coverage will vary depending on the porosity and texture of the substrate

*Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance

Drying Time, @ 77°F, 50% RH:

| | |
|------------------------------------|-----------------|
| temperature and humidity dependent | |
| To touch: | 6 hours |
| Recoat: | Minimum 8 hours |
| | Maximum 5 days |
| Light traffic: | 8-12 hours |
| Heavy traffic: | 72-96 hours |

If maximum recoat time is exceeded, abrade surface before recoating.

Full Cure should be reached in 14 days

*NOTE: High humidity and /or low temperatures will affect drying time.

| | |
|-----------------------|---------------------|
| Flash Point: | 200F (mixed) |
| Finish: | Gloss |
| Mix Ratio: | 3:1 |
| VOC | 83 g/L; .60 lb/gal* |
| Volume Solids: | 46.5 ± 2%* |
| Weight Solids: | 64.4 ± 2%* |

*May vary by color

Shelf Life: 36 months, unopened (store indoors at 60° F to 95° F)

Coefficient of Friction .74

Perm Rating

ASTM D1653 5.5 grains/(hr ft² in Hg)

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Reference installation guide for complete surface preparation instructions. Some surfaces may require special treatment.

Bare Concrete: Newly poured concrete must be at least 28 days old. All concrete must be clean, dry and free of grease, oil, etc. If mold, mildew or fungus is present, kill and remove with a solution of one-cup household bleach to one gallon of water.

Repair: For the best waterproofing protection on vertical and horizontal concrete and masonry surfaces, patch and repair cracks with **H&C® Quick Patch and Repair**. Patching compounds will generally be visible through clear coatings.



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SURFACE PREPARATION

Step One: Remove foreign substances. Scrape off any surface debris, such as putty, paint or oily dirt, so that the surface is smooth and even. Use running water or pressure washer to flush the entire area to remove any loose dirt and debris from the surface.

Step Two: Clean and Degrease. Add the enclosed Cleaner/Degreaser to two gallons of water in a pail and mix until the powder is dissolved. Vigorously spread the solution over the area to be coated with the aid of a broom or mop and allow it to soak for 10-15 minutes.

Allow to soak and emulsify the oils and grease in the surface for 10-15 minutes, thoroughly scrub the entire surface again with a stiff bristle broom or a floor scrubbing machine. Thoroughly rinse the entire surface with clean water to remove all spent Cleaner/Degreaser, emulsified oils and grease, and any loose dirt and debris.

*If surface does not appear to be clean, repeat surface preparation procedure.

*Older stained or highly polished concrete needs to be sanded or cleaned with a wire brush prior to cleaning and degreasing to promote adhesion.

APPLICATION

Install Shield-Crete at temps between 60°F & 95°F and when relative humidity is less than 80%. Please reference the Installation guide for complete application instructions.

Mixing: Mixing can be accomplished using the mixing stick provided in the kit or it can be enhanced through the use of a low speed electric drill and a paint mixing paddle. High speed mixing should be avoided so that air bubbles are not captured in the material.

Step One: Thoroughly mix part "A" and part "B" separately. Pour all contents of part "A" into the larger part "B" container. Mix the two components together for at least 3 minutes. Improperly mixed resins may not harden or may cause color variation when applied.

Step Two: An optional, non-skid additive is provided in the **Shield-Crete** kit. This material should be added to the mixed resins in the final coat to reduce the risk of slipping on finished floors that may be exposed to wet conditions.

*The non-skid additive will settle while mixed in the resin. Periodic stirring during the application is needed to assure uniform application of color and the non-skid aggregate.

Application Option 1 - Solid Color

Apply **Shield-Crete** evenly and consistently to the entire area being coated. Be careful to cover all areas and do not leave light streaks or heavy areas. Back roll to ensure color and film uniformity.

Application Option Two - Decorative Flakes

Apply the **Shield-Crete** evenly and consistently with complete coverage to an area that you can easily reach to disperse the deco flakes, usually a width of about three feet. Immediately after applying the **Shield-Crete** to a three foot segment, sprinkle the deco flakes from a height of approximately three feet, allowing them to randomly fall on the wet surface. The flakes should be applied so the surface is uniform in amount but random in color. Leave a wet edge of the **Shield-Crete** where you can start coating your next area without disturbing the deco flakes that have been applied. Continue this process until the entire area is completed with a uniform appearance.

Application Option Three - Glaze Coat

The Glaze Coat provides an even tougher, glossier finish for **Shield-Crete** floors. Application is suggested, though not required for deco-flake floors in high traffic areas.

Brush—Use a nylon/polyester brush

Roller—Use a high quality 3/8" nap roller cover

LIMITATIONS

Do not apply **Shield-Crete Epoxy** in direct sunlight, as it will prematurely fade/chalk and discolor the finish. **CLEANUP INFORMATION**

CLEAN UP INFORMATION

Clean spills and spatters immediately with soap and warm water. Sticky resin or residue on hands can be removed with isopropyl alcohol. Fully cured **Shield-Crete** can only be removed with industrial paint strippers or through mechanical methods such as grinding or sanding.



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ORDERING INFORMATION

Part Numbers

Pewter single kit 20.002100-99
 Pewter contractor kit ... 20.001100-37
 Beige single kit 20.002200-99
 Beige contractor kit 20.001200-37
 Ivory single kit 20.002400-99
 Brick Red single kit 20.002300-99
 Jade Green single kit . 20.002700-99
 Royal Blue single kit .. 20.002800-99
 Night Sky single kit 20.002500-99
 Safety Yellow single kit 20.002600-99

SMIS Numbers

Pewter single kit 164-3758
 Pewter contractor kit 165-0803
 Beige single kit 164-4269
 Beige contractor kit 165-0795
 Ivory single kit 164-6108
 Brick Red single kit 164-6090
 Jade Green single kit 6501-22583
 Royal Blue single kit 6501-22567
 Night Sky single kit 6501-22559
 Safety Yellow single kit .. 6501-22575

TECHNICAL SERVICES

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of H&C concrete coatings 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

ORDERING INFORMATION

Deco Flakes Part Numbers

Pewter Blend 20.004100-14
 Beige/Ivory Blend 20.004200-14
 Red Blend 20.004300-14
 Green Blend 20.004400-14
 Holographic Flakes 20.006000-07

Deco Flakes SMIS Numbers

Pewter Blend 898-2712
 Beige/Ivory Blend 898-2720
 Red Blend 898-2738
 Green Blend 650-122-864
 Holographic Flakes 650-124-951