



H&C™ CLEARPROTECT™ WATER-BASED 2-PART POLYURETHANE CLEAR COAT – SATIN



PRODUCT DESCRIPTION

H&C™ CLEARPROTECT™ Water-Based Polyurethane Clear Coat is a two-component, 60%-solids, breathable aliphatic urethane designed for use over concrete overlays and concrete and masonry substrates.

FEATURES & BENEFITS

- Provides the performance characteristics of a solvent-based system with the ease of application of a water-based system.
- Provides a tough, durable, aesthetically pleasing finish.
- Available in a choice of satin or gloss sheen levels.
- Meets strict VOC regulations, making it suitable for use in all states.
- Breathable to minimize moisture entrapment and coating degradation.
- Complies with USDA food requirements for safety
- Excellent wear, adhesion properties, and chemical resistance.
- Safe for application in occupied buildings.
- Suitable for commercial and industrial use

RECOMMENDED USES

H&C CLEARPROTECT Water-Based Polyurethane Clear Coat can be used over most commercial and industrial concrete and masonry surfaces requiring a durable, satin finish. It also is an ideal topcoat for H&C CLEARPROTECT Epoxy Clear Coat. It can also be applied over H&C® INFUSION® Decorative concrete color treatments, such as Acetone Dye, Acid Stain and Semi-Transparent Stain, and as a protective coating over H&C™ DURATOP™ Concrete resurfacers and overlays.

COVERAGE RATES

250-400 sq ft/gal (6-4 wet mils)

NOTE: Coverage will vary depending on concrete porosity and texture.

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

H&C CLEARPROTECT Water-Based Polyurethane Clear Coat is for professional use only. Thicker puddled material can result in CO₂ entrapment. This coating though resistant, is not a resistant against tire staining.

SURFACE PREPARATION

Proper inspection and preparation of the substrate to receive resinous material is critical. For the best adhesion, properly prepared concrete should be clean, dry and absorbent.

Bare Concrete: Before applying product to new concrete, allow to cure for 28 days. All concrete should be clean and free of grease, oil, laitance, mildew and paint.* To spot clean, use H&C® CONCRETEREADY® Cleaner Degreaser, following label directions. Rinse thoroughly and allow to dry. If mold, mildew or fungus is present, kill and remove by cleaning with a solution of 1 cup household bleach to 1 gallon of water. All concrete surfaces must be etched first with H&C CONCRETEREADY Etching Solution or muriatic acid, following label directions. Properly etched concrete should have the feel of 120-grit sandpaper and absorb water rapidly. To test, place a dime-size amount of water onto various areas of the slab to be coated. The water should absorb into and darken the concrete in 10 to 15 seconds. If the water does not absorb, then additional surface preparation methods should be done, such as mechanical grinding or shotblasting. Reference surface prep standard SSPC-SP13/NACE 6, or ICRI No. 310 2R, CSP 1-3. Prepared concrete should have a pH level of 6 to 10.

***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 Stained or Colored Concrete: Make sure previously stained or dyed surfaces are in sound condition. Use H&C CONCRETEREADY Cleaner Degreaser mixed to a 50/50 ratio with water to remove any contaminants from the surface. H&C CLEARPROTECT Water-Based Polyurethane Clear Coat can be used over H&C INFUSION Decorative Stains and Dyes including Semi-Transparent Stains, Acetone Dyes Stains and Infusion Reactive Stains. Please refer to the respective data sheets for these products for the recommended dry times before applying.

TOOLS REQUIRED

- Stiff broom
- Garden hose with a pressure washer nozzle
- Bucket
- Eye Protection
- Respiratory Protection
- Gloves

APPLICATION INSTRUCTIONS

Mixing: H&C CLEARPROTECT Water-Based Polyurethane Clear Coat is a catalyzed product. Part A (clear) and Part B (hardener) must be mixed prior to use, as follows:

1. *Premix Part A (resin) using a low-speed drill and blade. Mix for 1 minute and until uniform, using caution not to whip air into the material.
2. *Add 3 parts of Part A (resin) to 1 part of Part B (hardener). Mix with low-speed drill and blade for 3 minutes until uniform. No induction time is needed. You can apply material immediately after mixing.

*For Full Fill Items

NOTE: Dry, hot conditions may result in less time for this product to level properly. If these conditions exist or you notice the material is not leveling smooth, reduce the product by up to 20% with potable water.

When to Apply: During installation and initial cure of H&C CLEARPROTECT 2-Part Water-Based Polyurethane Satin, concrete substrate and ambient air temperatures must be between 50°F (10°C) and 90°F (32°C). Substrate temperature must be at least 5°F (3°C) above the dew point.

How to Apply: Apply mixed product using a ¼- to- 3/8-inch nap roller at a spread rate of 250 to 400 square feet per gallon at 6-4 wet mils. The coating will tack quickly after application, so maintain a wet edge to avoid roller lines. If you see lines develop, cross roll to eliminate them. Apply product evenly to ensure uniform coverage. Avoid puddling of material, which can result in white discoloration. Allow 24 hours minimum dry time before opening to wheeled traffic and exposing to water.

Second Coat: If a second coat of H&C CLEARPROTECT Water-Based Polyurethane Clear Coat is required, apply the second coat 2 to 4 hours after installation of the first coat. Because the coating cures to a very hard, glass-like film, recoating after cure is difficult. Wear spiked shoes (the first coat will still be tacky), and take care to roll out any cleat marks. If the first coat has cured overnight, you will need to sand it using an orbital buffing machine and 80-grit sanding screen.

SLIP RESISTANCE

Some surfaces may require a slip-resistant additive for safety. Add H&C® SharkGrip® Slip-Resistant Additive to the final coat, following label directions. This product should not be used in place of a nonskid finish.

CLEANUP

Clean mixing and application equipment immediately after use with soap and water.

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

Physical Properties and Characteristics		
Property	Test Method	Value
Dry Time @ 72°F, 50% RH*	Dry-to-touch	4 to 6 hours
	Light foot traffic	24 hours
	Heavy traffic	48 to 72 hours
	Recoat	2 hours
Pot Life		1.5 hours
VOC	EPA Method 24	<50 g/L; 0.42 lb/gal mixed
Static Coefficient of Friction	NFSI Method B101.3-2012 and B101.1-2009	With SharkGrip: Wet SCOF .68 Wet DCOF .52 Without SharkGrip: Wet SCOF .71 Wet DCOF .441
Finish		Satin
Abrasion Resistance	ASTM D4060, CS17 wheel, 1,000 cycles	41 mg loss
Pencil Hardness	ASTM D3363	4H
Adhesion	ASTM D7234	333 psi concrete failure
Chemical Resistance (after 24 hours exposure)	Gasoline	No effect
	Transmission fluid	No effect
	Brake fluid	No effect
	Antifreeze	No effect
	Motor oil	No effect
	5% NaCl	No effect
	5% NaOH	No effect
	Muriatic acid	No effect
	SafKleen	No effect
	10% bleach	No effect
	CIP 100	No effect
	Vesphene	No effect
	LPHsE	No effect
	25% phosphoric acid	No effect
50% sodium hydroxide	No effect	
Isopropyl alcohol	No effect	
Volume Solids		50% ± 2%
Weight Solids		60% ± 2%
Weight per Gallon		10.1 lbs. ± 0.2 lb/gal; 1.28 Kg/L mixed
Shelf Life**	Unopened	Part A: 12 months Part B: 6 months

*High humidity and low temperatures will affect drying time.

** Store indoors at 50°F (10°C) to 90°F (32°C).

ORDERING INFORMATION

5 gallons	Part Number/SMIS	1 gallon	Part Number/SMIS
Part A	*50.11725A-20/6509-23121 50.11745A-19/6509-64695	Part A	50.11745A-16/6509-64752 50.11755A-16/6509-64711
Part B	*50.11725B-20/6509-23139	Part B	*50.11725B-16/6509-23147
2 gallon	Part Number/SMIS	1 quart	Part Number/SMIS
Part B	50.11745B-36/6509-64703		50.11745B-14/6509-64760

*Full Fill Items

CAUTION

WARNING: Irritates eyes, skin and respiratory tract. Contains butoxypropanol. **VAPOR HARMFUL.** Use only with adequate ventilation. Contains epoxy resin and volatile organic compounds. 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, wear respiratory protection (NIOSH/ MSHA TC23C or equivalent) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

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. If swallowed do not induce vomiting. Get medical attention immediately. **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

Seller's and manufacturers 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

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.