



H&C® PRO SERIES METALLIC PIGMENT

PRODUCT DESCRIPTION

H&C® PRO SERIES™ METALLIC PIGMENTS are vibrant mica coated organic and inorganic pigments that create pearlescent effects featured in multiple vibrant colors. With 30 color options, our pigments can be combined for unique color and effects in both commercial and residential settings. Combined with H&C PRO SERIES 2-Part Self-Leveling Epoxy, the metallic pigments create a dynamic flooring system that delivers showroom appearance.

FEATURES & BENEFITS

- Natural stone appearance
- Easy blend and installation
- Multi-dimensional color hues
- Stylish, unique design
- Low maintenance system
- 30 Color options

RECOMMENDED USES

For use with resinous flooring systems such as H&C® PRO SERIES™ 2-Part Self-Leveling Epoxy. Ideal for residential interiors, garage floors, retail stores, bars, clubs, retail stores and other applications for resilient flooring.

PRODUCT INFORMATION

Components:	Mica; Iron Oxide
Form:	Powder
Bulk Density:	16-20g/100g
Solubility:	Insoluble in Water
PH:	6.0-9.0 mixed(4% H2O)
Melting Point:	Decomposes
Shelf Life:	36 months
Particle Size:	5-100 µm
Density:	3.1-3.2 kg/L
Packaging:	6.34 oz container

RATIO AND AMOUNTS

Pigment amount	Coating amount	Coverage Area
6.34 oz unit	4-5 gallons	200 -240 sq ft

JOBSITE TEST SECTION

Due to the wide variety of substrates, preparation methods, application methods and environments, it is important to create a test sample. The final sheen may vary depending on the type of sealer and other variables. Always apply sealer to test sample.

LIMITATIONS

WARNING! Surfaces may be slippery when wet and proper preventative precautions are recommended. To increase slip/skid resistance, add H&C® SHARKGRIP® Slip-Resistant Additive to the coating for additional protection. The addition of anti-slip/skid additives will not completely eliminate the possibility or risk of slipping/skidding or falling.

SURFACE PREPARATION

Due to the wide variety of substrates, preparation methods, application methods and environments, it is important to test the product in an inconspicuous spot for adhesion and compatibility prior to full-scale application.

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.

For surface preparation, refer to SSPC-SP13/NACE 6 or ICRI No.310.2, CSP 1-3.

Bare Concrete: Before applying product to new concrete, allow to cure for 28 days at 75°F/24°C. Remove all loose mortar and foreign material. All concrete should be clean and free of grease, oil, laitance, concrete dust, release agents, moisture curing membranes, loose cement, hardeners, 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. Prepared concrete should have a pH level of 6 to 10.

*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. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

TOOLS REQUIRED

- Synthetic brush – for cut-in around edges
- 3/8in to 1/2in Woven solvent-resistant core roller
- Spiked or Loop Roller – recommended to prevent outgassing
- Spiked shoes
- Squeegee or notched Squeegee
- Trowel
- Mixing blade and variable-speed drill
- Eye Protection
- Respiratory Protection
- Gloves

APPLICATION CONDITIONS

Temperature: 50°F/13°C minimum
90°F/35°C maximum for air,
surface, and material at least 5°
F/2.8°C above dew point

Relative Humidity: 85% Maximum

APPLICATION INSTRUCTIONS

The basic steps for a successful metallic flooring application are

1. Surface Preparation
2. Basecoat
3. Metallic Pigment Coat
4. Clear Topcoat (optional)

Pre-install Preparation

Ensure all proper application and protection equipment is procured. Refer to SDS to ensure a proper understanding of safety requirements and risks.

At least a two man job, because of the epoxy open working times which require product to be applied shortly after it is mixed and catalyzed.

Ensure to exit away from the wet application.

Use spike shoes during application process

Basecoat

Install H&C® PRO SERIES™ Epoxy Basecoat when temperatures are between 65° and 90°F and the relative humidity is less than 80%. You can apply H&C PRO SERIES Epoxy Basecoat as a solid color in black or gray to provide an excellent color contrast when used as part of the metallic

flooring system or as a single application. Allow at least 15hr-24hr dry time before applying metallic coat. For a thicker epoxy basecoat option H&C PRO SERIES 2-Part Self-Leveling Epoxy can also be used for greater depth and for floors that have divots or small holes.

For more detailed application instructions please refer to the appropriate product data sheet.

Metallic Coat

Prepare: Any imperfections or contaminants in the basecoat should be scuffed with 100 grit sand paper or a sanding screen and vacuumed. The vacuuming will ensure any dirt or particles will be removed that have settled during the curing process. Following vacuuming you have the option to use a micro-fiber and denatured alcohol wipe across the surface of the basecoat. **Mixing:** H&C PRO SERIES 2-Part Self-Leveling Epoxy is the clear epoxy that is mixed with H&C PRO SERIES Metallic Pigment to produce the dynamic metallic effects and unique designs upon application.

Prepare your mixing station to ensure speedy application once parts A & B are mixed and the catalysis begins. You have anywhere between 15-20 minutes working time to completely apply the catalyzed product to the floor. We recommend immediate application once the product is mixed.

To ensure proper dispersion of the metallic pigment we recommend to mix the H&C PRO SERIES Metallic Pigment into the Part B of the H&C PRO SERIES 2-Part Self-Leveling Epoxy. Mix pigment into part B for 5 minutes, let it sit for 10 minutes and then mix on low speed for 1-3 minutes in order to prevent the formation of air bubbles. Apply to the Part A and begin mechanical mix with a low-speed drill and blade for 3 minutes until uniformity is achieved.

Application: Spiked shoes are required throughout the application. Select spreader. Notched squeegee or gauge rake may be appropriate. Roller ranging in nap size from 3/8 to 1/2 inch may be appropriate. Rollers should be premium quality. Large areas may require 18" rollers and wider squeegees. Spread product evenly over area. Flatten the poured out trail into place, as it "self-levels." Areas adjacent to walls may be "cut in" by brush. After achieving the appropriate coverage, begin progressively back-rolling the first coat. Randomly swirl the metallic coat with a smaller roller in no particular fashion. The swirling motion will "soften" as the pigments settle into a pleasing pattern. Working time for this process is approximately 15 – 20 minutes. Time the mixes so that stages are consistently aligned. For example, if the first 3 gal. (11.4 liter) kit of metallic coat was placed and randomly swirled within 10 minutes, the second 3 gal. (11.4 liter) kit should be placed in the same time frame so that they would not appear drastically different. Allow to dry and cure sufficiently to proceed to next step (approximately 8 – 10 hours). If outgassing occurs there is the option to use a spiked roller within the first 30 minutes of application to relieve outgassing.

Topcoat: For superior abrasion and chemical resistance the Metallic Coat should be protected by a Finish Coat. There are several choices that have varying advantages:

- H&C PRO SERIES Water-Based Polyurethane 2-Part Clear (Satin or Gloss)
- H&C PRO SERIES 2-Part Self-Leveling Epoxy (Gloss)

The Metallic Coat should be screened with a 100 grit sanding disc on a rotational floor scrubbing machine. This scuffing will ensure not only a good bond between coats, but also eliminate any debris or dust particulates that may have settled as the primer coat was curing. Follow screening with vacuuming. Following vacuuming with a micro-fiber wipe with denatured alcohol or acetone.

For specific directions on finish coat refer to the appropriate spec sheet.

CLEANUP

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents.

SAFETY

Refer to the SDS sheet before use. federal, state, local and particular plant safety guidelines must be followed during the handling and installation and cure of these materials. Safe and proper disposal of excess materials shall be done in accordance with applicable federal, state, and local codes.

MATERIAL STORAGE

Store materials in a temperature controlled environment (50°F - 90°F) (10°C - 32°C), and out of direct sunlight. Keep resins, hardeners, and solvents separated from each other and away from sources of ignition. Shelf life of material will vary, check individual product data sheet.

MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact the Technical Service Department.

CAUTION

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. **DELAYED EFFECTS FROM LONG-TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **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.