



**PRODUCT DATA SHEET**  
**PROD. #450 SERIES**  
**SIGNATURE SERIES PLUS**  
**CERAMIC PAINT & PRIMER IN ONE**  
**SEMI-GLOSS FINISH**



**PRODUCT DESCRIPTION**



**Signature Series Plus Ceramic Paint & Primer In One Semi-Gloss Finish** is a specially formulated interior wall and trim paint that incorporates new resin technologies and the use of "Ceramic Microspheres". By combining these two properties, we create a product that provides an excellent "stain barrier" finish, enhancing its overall toughness and resilience against dirt and stains, and has excellent self-priming properties. Its rich semi-gloss finish is easy to apply, provides excellent coverage, adhesion, durability, and scrub resistance. It is VOC compliant making it ideally suited for application in occupied areas such as, Hospitals, Office Complexes, Government Buildings, Schools, Hotels/Motels, etc., where low odor and low VOC coatings can benefit the health concerns of these types of environments.

PRODUCT FEATURES	PRODUCT USES	PERFORMANCE QUALITIES	VOC COMPLIANCE
<ul style="list-style-type: none"> <li>New Resin Technology</li> <li>Ceramic Microsphere Technology</li> <li>Self Priming</li> <li>Excellent Coverage</li> <li>Excellent Stain Resistance</li> <li>Excellent Durability</li> <li>Low VOC / Low Odor</li> <li>Easy To Apply</li> </ul>	<p><i>Suitable for the following properly prepared surfaces;</i></p> <p><b>INTERIOR</b></p> <p>Drywall                      Wood &amp; Metal Doors            Plaster                      Masonry            Ceilings                      Aluminum            Wood Trim                    Galvanized Metal</p> <p><b>For Interior Use Only!</b></p>	<p><b>Product Quality:</b> Premium / Best</p> <p><b>Product Use:</b> Interior</p> <p><b>Application:</b> Brush, Roller Cover, Airless Spray</p> <p><b>Product System:</b> Water- Based</p> <p><b>Finish:</b> Semi-Gloss</p>	<p><b>AIM</b>                      Yes</p> <p><b>OTC</b>                      Yes</p> <p><b>CARB</b>                    Yes</p> <p><b>SCAQMD</b>                Yes</p> <p><b>MPI #</b>                    No</p> <p><b>LEED® 09CI</b>            Yes</p> <p><b>LEED® 09NC</b>            Yes</p> <p><b>LEED® 09CS</b>            Yes</p> <p><b>LEED® H</b>                Yes</p>

**SURFACE PREPARATION**

**General:** The entire surface area to be painted should be clean, dry, sound, and free from dirt, grease, oils, waxes, mildew and any other surface contaminants that may adversely affect the performance of this coating material.

- Remove any loose, scaling, cracked or peeling paint from previously painted surfaces by hand scraping, sanding, wire brushing or by power tool cleaning methods, such as electric sanders or grinders, etc.
- Repair/replace any damaged and/or delaminated surface areas with the proper patching and/or building materials. Allow all patching materials to dry thoroughly before application of paint coatings.
- Sand all rough paint edges smooth to adjacent surface area, and sand all glossy surfaces to dull existing finish.
- Prime and/or spot prime all bare and new surface areas with Manufacturer's properly specified primer/sealer compatible to the surface type and before application of finish coating.

**Mildew** - Treat surface areas affected by mildew with a commercial mildew removal and/or wash product carefully following manufacturer's application and safety directions. Rinse thoroughly with clean water, and allow a minimum of 24 hours to dry thoroughly.

**NOTE:** Allow all new concrete and masonry substrates to dry/cure for a minimum of 30 days before application of any paint coating, and in accordance with industry standards.

- 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 wet mop. Before you start, find out how you can protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-Lead, or log onto [www.epa.gov/lead](http://www.epa.gov/lead).

**PRODUCT ANALYSIS DATA**

**PIGMENT: 25.53%**

**VEHICLE: 74.47%**

*MORE DETAILED PRODUCT ANALYSIS DATA IS AVAILABLE UPON REQUEST.*

**TECHNICAL DATA**

- COLORS:** White & Tint Bases  
 450 – White                      451 Tint Base  
 452 – Deep Base                453-A Accent Base
- TINTING:** Universal Colorants
- VEHICLE TYPE:** Acrylic
- VISCOSITY:** 100 KU ± 3
- GLOSS @ 60°:** Semi-Gloss / 50 units ± 2
- FLASH POINT:** 214° F
- VOC:** Not to Exceed 50 g/l - 0.42 lb/gal  
 (Meets AIM, OTC, CARB & SCAQMD Standards)
- SOLIDS:** By Volume: 37.67% ± 2%  
 By Weight: 51.12% ± 2%
- COVERAGE:** 300 – 400 Sq. Ft./Gal.  
 (Depending on Application & Surface Porosity.)
- MIL FILM:** Estimated @ 350 Sq. Ft./Gal.  
 Wet: 4.6 mils                      Dry: 1.9 mils
- DRY TIME:** (@ 70° F & 50% Relative Humidity)  
 To Touch: 30 Min. – 1 Hour  
 Recoat: 4 – 6 Hours or after overnight dry.
- CLEAN UP:** Warm Soapy Water
- THINNING:** Clean Water

## RECOMMENDED PRIMER COATINGS

Although formulated to be self-priming on previously painted surfaces in good condition, the following Richard's products are recommended primer coatings for this finish coating material. However, recommended Richard's primer coatings are not limited to the products listed below.

### SPECIAL SURFACES

- **New Gypsum Drywall**
  - PPS Universal Alkyd Primer/Sealer Undercoater (7-22)
  - Holzout II 100% Acrylic Universal Primer/Sealer Stain Killer (26)
- **Staining Woods**
  - PPS Universal Alkyd Primer/Sealer Undercoater (7-22)
  - Holzout II 100% Acrylic Universal Primer/Sealer Stain Killer (26)
- **Unpainted Ferrous Metal**
  - Rust Shield Red Oxide Metal Primer (1015)
  - Rust Shield Metal Primer White (1018)
  - Industrial Coatings Universal Primer (1120)
- **New Galvanized & Non-Ferrous Metal**
  - PPS Universal Primer/Sealer Enamel Undercoater (7-22)
  - Holzout II 100% Universal Primer/Sealer Stain Killer (26)

**Repaint Work:** On previously painted surfaces that are in good condition, no primer is usually necessary. Glossy surfaces should be properly dulled with sandpaper or steel wool. Holes, cracks and any other surface imperfections should be patched with appropriate fillers and allowed to dry thoroughly. Spot prime all bare areas with appropriate primer and prime all water stains with any Preps • Primes • Seals product listed above.

## APPLICATION EQUIPMENT

- **Brush Application:** Apply using a quality nylon, polyester, or combination nylon/polyester bristle brush.
- **Roller Application:** Apply using a ¾" - 1¼" nap synthetic or lamb's wool roller cover, depending on the texture and surface porosity.
- **Spray Application:**
  - **Pump:** Gas or Electric Airless Sprayer
  - **Pressure:** Minimum 2000 psi
  - **Tip:** 0.017 – 0.019 Reversible
  - **Hose:** ¼ inch (6.3 mm) - ¾ inch (10 mm)

## PACKAGING & WEIGHT PER GALLON

- **Packaging:** Quarts – 6/case      Gallons – 4/case  
2 Gallons – N/A      5 Gallons – Each; (White & TB Only)
- **Weight Per Gallon:** 10.75 lbs.

## CLEAN UP & THINNING INSTRUCTIONS

**Clean Up:** Clean up any minor spills and splatters immediately with warm soapy water, as well as all painting tools and airless equipment. More serious paint spills should be contained and removed with inert absorbent material. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state and federal regulations.

**Thinning:** Stir thoroughly and apply as it comes from the container. Thinning is not necessary. However, if thinning is required, you may add clean water up to ½ pint per gallon.

## WARRANTY & LIMITATIONS

The technical information contained herein is accurate to the best of our knowledge. All warranties are excluded, whether expressed or implied, by operation of law or otherwise, including all implied warranties of merchantability or fitness for a particular purpose. Seller shall not be liable, directly or indirectly, under any circumstances for consequential, incidental, special or any other type of damages arising or resulting from any reason under the sale, handling, or use of goods sold. Seller's liability hereunder, and buyer's exclusive remedy hereunder, for negligence or any other reason, is expressly limited to reimbursement of the purchase price of the materials sold after proof of purchase is provided to the seller. Notice of any alleged failure or defect in the material must be given to the seller in writing by certified U.S. mail within 15 days of noticing the problem. Failure to give the required notice within the time provided constitutes a waiver of any claim. The Manufacturer is not responsible for any misrepresentation made by the Dealer.

REV 07-14

## PRODUCT APPLICATION – General

**Signature Series Plus Ceramic Paint & Primer In One Semi-Gloss Finish** may be easily applied with a quality brush, roller cover, or airless spray equipment as follows;

- Stir thoroughly in a spiral up and down motion before and during application to keep product completely mixed.
- For best results, it is recommended to apply two (2) finish coats.
- To assure color uniformity always intermix multiple containers of custom tinted and stock colors. Apply a small test sample to verify color.
- When applying by brush, apply a smooth and generous coat on smaller surface areas, such as cutting-in larger surfaces and painting trim.
- When applying by roller cover, apply an even and generous coat in a "W" or crisscross motion, avoiding any excessive respraying or reworking.
- When applying by airless spray equipment, use a unit with a minimum of 2000 psi of pressure, with a 0.017 – 0.019 fluid spray tip.
- During spray application, it is recommended to back-roll the surface area to ensure proper adhesion, an even coat application.
- Maintain a wet edge during application by brushing, rolling or spraying into previously applied coating area.
- If applying two finish coats, allow to dry thoroughly between coats.
- Apply when surface and ambient temperatures are above 55° F and below 90° F.

## PRODUCT LIMITATIONS

- Not for use in corrosive or chemical environments.
- Not for use in areas subject to intense heat.
- Not for use on below grade substrates.
- Not for use on exterior surfaces.

## PRECAUTIONARY & SAFETY INFORMATION

**CAUTIONS:** Avoid prolonged contact with skin, and breathing of dust, vapors and/or spray mists. Causes eye irritation. **USE WITH ADEQUATE VENTILATION!** Ensure fresh air entry during application and drying. If you experience eye water, headache or dizziness, or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriately fitted respirator, (NIOSH approved), during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing. Use chemical safety glasses, goggles or a face shield for proper eye protection. Wash thoroughly after handling and before eating or smoking. Close container after each use. **DO NOT TAKE INTERNALLY!**

**FIRST AID:** In case of skin contact, wash thoroughly with plenty of warm soapy water. For eye contact, flush with plenty of water for 15 minutes and get medical attention immediately. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately. If swallowed, do not induce vomiting, get medical attention immediately.

**KEEP OUT OF REACH OF CHILDREN!**