



ACRI-SHIELD® SEMI-GLOSS Exterior Acrylic Paint

649

ACRI-SHIELD SEMI-GLOSS Exterior Acrylic Paint No. 649 Series is a Super Premium, 100% acrylic, semi-gloss exterior paint. It is used for all types of new or previously painted commercial, institutional, residential exterior wood and masonry surfaces such as siding, trim, eaves, fascias, shutters, fences, properly prepared brick, block, stucco and concrete surfaces, vinyl, primed metals and metal siding, vinyl siding and trim, etc. It can be used over both latex and alkyd paints.

USED FOR	FEATURES
<ul style="list-style-type: none"> Wood siding, trim Manufactured siding Vinyl siding, trim Brick Concrete Concrete block (CMU) Stucco Fencing, shutters 	<ul style="list-style-type: none"> 100% acrylic Superior weather resistance Non-yellowing Fade resistant Easy to apply, low odor Easy soap & water clean-up Mildew resistant* <p>*This paint contains agents which inhibit the growth of mildew on the surface of this paint.</p>

RECOMMENDED SYSTEMS
ACRI-SHIELD SEMI-GLOSS Exterior Acrylic Paint No. 649 series can be applied to a wide variety of primed substrates. Finish the following primed surfaces with one or two coats of **ACRI-SHIELD SEMI-GLOSS Exterior Acrylic Paint No. 649 series**:

SUBSTRATE	TYPICAL PRIMERS*
Aluminum, Bare:	272/276, 286, 296
Aluminum Siding, Good condition:	515, self-prime
Badly weathered:	565, 898, 74130
Copper:	272/276, 286, 296
Exterior Sheathing (Overheads):	515, 565, 74130
Manufactured Siding (follow mfr's instruction):	515, 565, 898, 74130
Masonry	
Brick:	898, 6010, 6015
Concrete:	898, 6010, 6015
Concrete Block (CMU):	222, 896, 6223, 9203
Repaint:	515, 565, 898, 74130, self-prime
Steel, iron:	272/276, 286, 290, 296, 299
Steel, Galvanized:	212/215, 290, self-prime
Stucco, Cement Plaster:	898, 6010, 6015, self-prime
Vinyl Siding**:	515, self-prime
Wood:	515, 565, 74130

*NOTE: First coat on porous substrates is always thinned 10-20% to aid penetration.
**NOTE: Do not paint vinyl with colors darker than the original vinyl color.

LIMITATIONS
Do not apply in direct sunlight or when air or surface temperature is below 50°F or above 110°F. Do not apply in late afternoon if condensation or fog is likely to occur, nor when rain is expected within 12 hours. Surface temperature must be at least 5°F above dew point. For optimum application properties, bring material to 65-85°F (18-29°C) temperature range prior to application. Use for service below 150°F. Do not use on floors or deck walking surface.
Protect from freezing.

TECHNICAL DATA

Data below is based on White base.
Product Type: Acrylic
Bases/Colors: 640 White Base, 649 Light base
 648 Deep Base, 644 Ultra Deep Base

Gloss, 60°: Semi-Gloss (Typical range: 30 - 40)
Reflectance: 98 ± 1%
Percent Solids:
Weight: 46 ± 2%
Volume: 36 ± 2%
PVC: 35 ± 2%
Weight/Gallon: 10.34 lb
Viscosity (Initial): 98 - 103 Krebs Units
Thinner:
Brush/Roller: If necessary, thin sparingly with clean water up to ½ pint per gallon.
Spray: Thin with clean water up to ½ pint per gallon.
Clean-up: Warm, soapy water.
Recommended Film Thickness:
Wet: 4.0 mils
Dry: 1.5 mils
Spread Rate (Theoretical):
Smooth Surfaces: Up to 400 sq. ft./gal.
Rough Surfaces: 200-300 sq. ft./gal.
Dry time (70°F @ 50% R.H.):
To Touch: 2-4 hours
To Recoat: 16-24 hours
Full Service: 15-30 days
(Expect longer dry times at lower temperatures and higher relative humidity.)
Flash Point: >200°F (>93°C)
Flame Spread Rating: Class A (0-25)
(See Porter Technical Bulletin No. 9: Flame Spread Rating.)
Federal Specification Crossover: None
(See Porter Technical Bulletin No. 6: Federal Specification Performance Crossover.)

Note: This product is not formulated with lead or mercury containing materials.

REGULATORY DATA

VOC based on white base. See labels for other bases.
VOC (theoretical):
 As supplied (untinted): 1.89 lb/gal (226 g/l)

SURFACE PREPARATION

Paint only clean, dry (may be damp, but not dripping), deglossed and profiled surfaces. Remove dirt, oils, grease, wax, form oils, release agents, sanding dust, paint remover, etc. with PORTERPREP™ Heavy Duty Cleaner No. 571, Soilax and water, Porter Paint Thinner No. 5132 or other appropriate cleaners, or by vacuuming as necessary. Remove mildew by washing with a commercial mildew remover such as X-14 Mildew Remover or a mix of 1 part chlorine bleach to 3 parts clean water (rinse thoroughly after 15 minutes). **NEW WOOD:** Repair construction defects, sand as necessary and prime new wood. After primer is dry, fill openings and nail holes with TOP GUN™ Siliconized Acrylic Caulk No. 1414, or other suitable sealant. Spot prime the caulk when well set, usually 1-4 hours. Spot prime knots and sap streaks with STA-KIL™ Primer/Sealer No. 164, STA-KIL™ Low Odor Primer/Sealer No. 174 or shellac. **REPAINT:** Remove loose and failing paint by power washing, hand scraping or power tool cleaning and sand edges smooth when applicable. Fill holes and gouges in wood and other substrates with wood patch or filler, etc. as appropriate. Sand patched areas smooth as necessary before priming bare areas and patches. NOTE: Always prime chalky paints and surfaces with an appropriate Porter penetrating primer such as ACRI-SHIELD Acrylic Bonding Primer No. 515, EASY HIDE™ House Paint Primer No. 565, PORTERLOCK™ Pigmented Bonding Coat No. 898, PORTERLOCK WB Acrylic Pigmented Sealer No. 6010 or PORTERLOCK WB Acrylic Clear Sealer No. 6015.

NEW CONCRETE/MASONRY/STUCCO: Let new concrete, masonry and stucco cure 28 days before painting. (NOTE: Polymer modified thin coat stucco can usually be painted within 7-14 days depending upon drying conditions. Follow stucco manufacturer's instructions.) Remove any remaining deeply embedded contaminants such as curing compounds by abrasive blasting. Remove efflorescence by pressure washing or with a dilute muriatic acid solution following manufacturer's instructions. (CAUTION: When mixing and using, always add acid to water, and wear appropriate eye and skin protection.) Fill cracks and holes with Bondex Concrete Patch or other appropriate filler. For new concrete block (CMU), apply an appropriate Porter block filler (SEE RECOMMENDED SYSTEMS) before painting.

INSTRUCTIONS FOR USE

Tinting: Tint with Porter DESIGN SPECTRUM® Colorants per label directions. For XD base colors, use the Ultra Deep base and add 2 ounces/gallon of VV colorant to the XD base formula.

Mixing: Stir or shake thoroughly before application.

Thinning: Thin sparingly with clean water as necessary for proper application. Do not exceed ½ pint per gallon.

Clean-up: Clean tools and spray equipment with warm, soapy water immediately after use.

Application:

Conditions: Temperature Range:	50°F to 110°F (air, surface, paint) (Optimum paint temperature 65-85°F)
Dew Point:	Surface temperature must be at least 5°F above the dew point.
Relative Humidity:	Maximum 85%
Equipment: Brushes:	Use nylon or polyester brushes.
Rollers:	Use 3/16" to 1/2" synthetic roller covers.
Airless Spray:	Minimum 28:1 Pump Ratio; .015"-.018" tip; 1800-2400 psi; 1/4" High Pressure material hose.
Directions: New Work:	Apply a uniform coat of appropriate primer or block filler per primer data sheet instructions (SEE RECOMMENDED SYSTEMS) at the millage specified for the application. Finish with one or more coats of ACRI-SHIELD SEMI-GLOSS Exterior Acrylic Paint No. 96222 series.
Repaint:	Spot prime bare areas as required with an appropriate primer (SEE RECOMMENDED SYSTEMS), then apply one or more coats of ACRI-SHIELD SEMI-GLOSS Exterior Acrylic Paint No. 649 series.

Washing Instructions: Protect the finish from abuse and contamination until well cured, at least 4-6 weeks. Try to avoid washing the finish for 30 days. For large areas, wash with a soft sponge and a solution of PORTERPREP Heavy Duty Cleaner No. 571, Soilax or TSP and water. For marks, pencil, etc., clean with a damp sponge and powdered cleanser.

PRECAUTIONS

Prior to using this product, the user is specifically directed to obtain and read the current Material Safety Data Sheet and Label for this product. If, after reading these documents, you do not understand them, do not use this product. KEEP OUT OF REACH OF CHILDREN.

SHIPPING

Freight Classification: PAINT OR PAINT RELATED MATERIAL

Packaging: 6 Quarts per carton; 4 Gallons per carton; 5-Gallon Pail

Shipping Weights: 2.9 lb/qt (17.9 lb/carton); 11.5 lb/gal (47.0 lb/carton); 56.2 lb/5-gal



The technical data furnished is true and accurate to the best of our knowledge. However, no guarantee of accuracy is given or implied. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. Technical data are theoretical values and subject to change without prior notice.

Porter Paints 400 South 13th Street, Louisville, Kentucky 40203 1-800-332-6270
www.porterpaints.com. For Internet Ordering: www.getpaint.com

A PPG Brand 