



HPC/Industrial Maintenance

Sil-Shield Silicone Alkyd Enamel High Gloss

GENERAL DESCRIPTION

Sil-Shield Silicone Alkyd Gloss Enamels are high solids, single component topcoats that are intended for use on interior or exterior, moderate industrial exposure. Ideal for use on structural steel, tanks, piping and towers. Sil-Shield offers infinite color capability through PerformaColor® Color System. For Professional Use Only; Not intended for household use.

RECOMMENDED USES

Aluminum	Galvanized Steel
Concrete	Plaster
CMU	Masonry
Ferrous Metal	Stucco

FEATURES AND BENEFITS

Durable high gloss finish
 Excellent fade resistance
 Excellent gloss retention
 Heat resistance to 350°F (177°C)
 Meets the performance requirements of Federal Standards TT-E-490 and TT-E-1593

MIXING AND APPLICATIONS INFORMATION

Application Equipment: Changes in application equipment, pressures and/or tip sizes may be required depending on ambient temperatures and application conditions.

Airless Spray: Pressure 2000 to 2500 psi, tip 0.013" to .017"

Conventional Spray: Fluid Nozzle: DeVilbiss MBC gun, with 704 or 777 air cap with E or FF tip and needle, or comparable equipment. Atomization Pressure: 30 to 60. Fluid Pressure: Can not specify, dependent on numerous factors.

Brush: Polyester/Nylon Brush

Roller: 3/8" nap solvent resistant core

Thinning: Thin as needed with 97-727 up to the maximum VOC limit. Never thin beyond legal limits in VOC regulated areas.

For 2.08 lbs./gal. VOC, thin up to 19% with 97-725.
 Conventional Spray: up to 32 oz./gallon with 97-725.
 Airless Spray: up to 25 oz./gallon with 97-725.
 Brush: up to 25 oz./gallon with 97-734.
 Roller: up to 25 oz./gallon with 97-734.

Permissible temperatures during application:

Material:	40° to 90° F	5°C to 32°C
Ambient:	40° to 90° F	5°C to 32°C
Substrate:	40° to 130° F	5°C to 54°C

TINTING AND BASE INFORMATION

These products are designed to be tinted with colorants of the PerformaColor System. Use formulas from the Sil-Shield section of the formula book or from the PerformaColor System Software.

95-5000	Neutral Base
95-5012	White Base

PRODUCT DATA

PRODUCT TYPE: Silicone Alkyd Copolymer

GLOSS: Gloss: +75 (60° Gloss Meter)

VOC*: 317 g/L (2.65 lbs./gal.)

COVERAGE: 407 to 679 sq. ft./gal. (38 to 63 sq. m/3.78L)

Wet Film Thickness: 2.4 to 3.9 mils

Wet Microns: 61 to 99

Dry Film Thickness: 1.5 to 2.5 mils

Dry Microns: 38 to 63.5

Coverage figures do not include loss due to surface irregularities and porosity or material loss due to application method or mixing.

DFT: 1.5 to 2.5 mils

WEIGHT/GALLON*: 10 lbs.(4.5 kg)+/-0.2 lbs. (91 g)

VOLUME SOLIDS*: 63.3% +/- 2%

WEIGHT SOLIDS*: 73.4% +/- 2%

*Product data calculated on 95-5000.

DRYING TIME: Dry time @ 77°F (25°C); 50% relative humidity.

To Touch: 4 hours

To Handle: 6 hours

To Recoat: 24 hours

Drying times listed may vary depending on temperature, humidity, film build, color, and air movement.

IN-SERVICE TEMPERATURE:

Dry Heat: 350°F (177°C)

CLEANUP: PPG Thinners 97-727 or xylene

DANGER: Rags, steel wool or wastes soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container. Refer to www.pittsburghpaints.com, Spontaneous Combustion Advisory for additional information.

FLASH POINT: 95-5000 106°F, (41°C)
 95-5012 106°F (41°C)

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GENERAL SURFACE PREPARATION

The surface to be coated must be dry, clean, and free of oil, grease, release agents, curing compounds, and other foreign materials. The service life of the coating is directly related to the surface preparation. Where appropriate bare areas should be primed with a suitable primer.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust or fumes. LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a properly fitted NIOSH-approved respirator and prevent skin contact 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 USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead. In Canada contact a regional Health Canada office. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

ALUMINUM: Solvent Clean per SSPC-SP1 to remove grease and oils and then SSPC-SP7.

CONCRETE MASONRY UNITS: Allow the mortar to cure for thirty (30) days under normal drying conditions. Remove all dirt, dust, grime, loose mortar and all other forms of contamination.

CONCRETE, STUCCO, PLASTER, MASONRY other than CMU: Allow all concrete, mortar, plaster, etc. to cure for thirty (30) days under normal drying conditions. Remove all dirt, dust, grime, loose mortar and all other forms of contamination. Concrete which has been treated with curing compounds or hardeners, should be thoroughly abraded.

FERROUS METAL: The surface must be cleaned thoroughly to remove any dust, rust, and surface contaminants prior to priming.

GALVANIZED STEEL: Solvent Clean per SSPC-SP1 to remove grease and oils. If any oxidation (white rust) has formed, sand and remove all forms of contamination. If the galvanized has been passivated or stabilized, the surface must be abraded i.e. Brush-Off Blast Clean per SSPC-SP7 or chemically treat the surface.

RECOMMENDED PRIMERS

Aluminum	6-204, 90-712
Concrete Masonry Units	6-15
Concrete, Stucco, Plaster Masonry other than CM Unit	4-603
Ferrous Metal	6-208, 94-258, 97-680
Galvanized Steel	6-209, 90-712

PACKAGING

1-Gallon (3.78L)
5-Gallon (18.9L)

LIMITATIONS OF USE

Must be used on dimensionally stable substrates. Not suitable for immersion service or for use on wood. Not intended for residential use or for areas that may be exposed to strong acids, alkalis, and solvent. Apply only when air, and the product and surface temperatures are 40°F (5°C) or higher, and when the surface temperature is at least 5°F (3°C) above the dew point. Do not apply silicone alkyd coatings over soft, slow drying, linseed oil primers. Do not apply directly over zinc rich primers - apply a barrier coat of Pitt-Guard® All Weather Direct-to-Rust Epoxy coating between the zinc rich primer and the silicone alkyd topcoat.

SAFETY

Proper safety procedures should be followed at all times while handling this product. Explosion-proof equipment must be used when coating with these materials in confined areas. Keep containers closed and away from heat, sparks, and flames when not in use. USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.

Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coatings into the skin by airless equipment may cause serious injury. Read all label and Material Safety Data Sheet for important health/safety information prior to use. MSDS are available through our website www.ppghpc.com or by calling 1-800-441-9695.

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D14 9/2012
Supersedes (10/2011)



Architectural Coatings

GENERAL DESCRIPTION

Speedhide SUPER TECH Water Based Interior Dry-Fog is a premium, fast-drying, low VOC flat designed for interior ceilings and overhead surfaces. With its excellent adhesion to a variety of substrates, this low odor dry-fog is formulated to have excellent flash rust resistance. Its higher hiding white finish has high light reflectance that dry falls in 10 feet under normal conditions. Speedhide SUPER TECH WB Interior Dry-Fog is self-priming on a variety of substrates and is ideal for gymnasiums, commercial warehouses, factories, retail outlets, and parking structures.

RECOMMENDED SUBSTRATES

Aluminum	Gypsum Wallboard-Drywall
Concrete/Masonry Block	Plaster
Concrete, Masonry	Pre-Primed Metal Roof Decking
Ferrous Metal	Wood
Galvanized Steel	

CONFORMANCE STANDARDS

- VOC compliant in all regulated areas
- Can help earn LEED® 2009 credits

APPLICATION INFORMATION

Stir thoroughly before use. USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN. Read all label and Material Safety Data Sheet (MSDS) information prior to use. MSDS are available through our website or by calling 1-800-441-9695.

Application Equipment: Apply with airless spray equipment. Minimum requirements: Pressure 2000 psi, tip 0.015" - 0.021". Where necessary, apply a second coat and allow each coat to dry thoroughly before applying the next coat. Changes in application equipment, pressure and/or tip sizes may be required depending on ambient temperatures and application conditions. Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coatings into the skin by airless equipment may cause serious injury.

Thinning: No thinning is usually required. If necessary, thin with up to one pint (472 mL) of water per one U.S. gallon (3.78 L) of paint.

Permissible temperatures during application:

Material:	50 to 90°F	10 to 32°C
Ambient:	50 to 100°F	10 to 38°C
Substrate:	50 to 100°F	10 to 38°C

FEATURES AND BENEFITS

Features

- Excellent hiding power and coverage
- Dry falls at ten feet
- Excellent adhesion
- Tolerates overbuild
- Light reflecting white
- Excellent flash rust resistance
- Self priming on a variety of substrates
- Can help earn LEED 2009 credits

Benefits

- Hides surface imperfections
- Limits use of masking equipment & reduces clean-up
- Eliminates crawling on the surface
- Resists mud cracking
- Increases lighting efficiency
- Minimizes surface imperfections
- Turns jobs faster & reduces labor
- Contributes to sustainable design

PERFORMANCE DATA

Property	Test Method	Result
Adhesion	ASTM D3359	Passes
Impact Resistance	ASTM D2794	Passes
Flexibility	ASTM D522	Passes
Pencil Hardness	ASTM D3363	4B

Speedhide SUPER TECH® WB Interior Dry-Fog Flat Latex

TINTING AND BASE INFORMATION

Refer to the appropriate color formula book, automatic tinting equipment, and or computer color matching system for color formulas and tinting instructions.

6-723XI	Black
6-725XI	White and Pastel Base

Some colors, drastic color changes, or porous substrates may require more than one coat to achieve a uniform finish.

PRODUCT DATA

PRODUCT TYPE:	Acrylic / PVA Latex
SHEEN:	Flat: 0 to 5 (60° and 85° Gloss Meter)
VOLUME SOLIDS*:	28% +/- 2%
WEIGHT SOLIDS*:	46% +/- 2%
VOC*:	30 g/L (0.3 lbs./gal.)
LIGHT REFLECTANCE*:	85

WEIGHT/GALLON*: 11 lbs. (5.0 kg) +/- 0.2 lbs. (91 g)

*Product data calculated on product 6-725XI.

COVERAGE: Approximately 200 sq. ft./gal. (18.6 sq. m/3.78L) on non-porous surfaces. Coverage figures do not include material loss due to application.

Wet Film Thickness:	8 mils
Wet Microns:	203
Dry Film Thickness:	2.2 mils
Dry Microns:	56

Coverage figures do not include loss due to surface irregularities and porosity or material loss due to application method or mixing.

DRYING TIME: Dry time @ 77°F (25°C); 50% relative humidity.

To Touch:	15 minutes
To Recoat:	2 hours
Free Fall:	10 ft.

Drying times listed may vary depending on temperature, humidity, color and air movement. Variations in temperature, humidity, color, and ventilation may affect dry fall distance.

CLEANUP: Clean tools with warm soapy water

DISPOSAL: Contact your local environmental regulatory agency for guidance on disposal of unused product. Do not pour down a drain or storm sewer.

FLASH POINT: Over 200°F (93°C)

GENERAL SURFACE PREPARATION

Surfaces to be coated must be dry, clean, sound, and free from all contamination including loose and peeling paint, dirt, grease, oil, wax, concrete curing agents and bond breakers, chalk, efflorescence, mildew, rust, product fines, and dust. Remove loose paint, chalk, and efflorescence by wire brushing, scraping, sanding, and/or pressure washing. Putty all nail holes and caulk all cracks and open seams. Sand all glossy, rough, and patched surfaces. Feather back all rough edges to sound surface by sanding. Prime all bare and porous substrates with an appropriate primer as recommended in primers section. If unsure of suitability of the substrate for painting, first spot check the product to test for adhesion performance. **WARNING!** If you scrape, sand, or remove old paint, you may release lead dust or fumes. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a properly fitted NIOSH-approved respirator and prevent skin contact 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 USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead. In Canada contact a regional Health Canada office. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

ALUMINUM: This substrate may present potential adhesion problems. Any coating applied directly to aluminum should be spot applied, allowed to cure overnight, and then evaluated for adhesion. If adhesion is good, the application may proceed.

CONCRETE and MASONRY: New concrete should cure for at least 30 days and preferably 90 days prior to priming and painting. The pH of the substrate must be less than 10 before painting.

CONCRETE/MASONRY BLOCK: Mortar should cure for at least 30 days and preferably 90 days prior to priming. Fill block with an appropriate block filler. Surfaces previously coated with water thinned cement-based paint must be prepared with extra care. If the material appears to be adhering tightly, a masonry sealer may be applied to seal the surface. Check adhesion by applying a piece of masking tape. If the sealer peels off and has loose particles, remove all chalking or crumbling material, re-seal and re-check adhesion.

FERROUS METAL: The surface must be cleaned thoroughly to remove any dust, rust, and surface contaminants, and then primed.

GALVANIZED STEEL: Caution must be used when selecting coatings for use on all galvanized metal surfaces. These substrates may have a factory-applied stabilizer, which is used to prevent white rusting during storage and shipping. Such stabilizers must be removed by either brush blasting, sanding or chemical treatment prior to painting.

GYPSUM WALLBOARD-DRYWALL: Nails or screws should be countersunk, and they along with an indentations should be mudded flush with the surface, sanded smooth and cleaned to remove any dust prior to painting the substrate.

PLASTER: Plaster, hardcoat, skim coat, or other alkaline surfaces should be allowed to cure for at least 30 days prior to painting.

PRE-PRIMED METAL ROOF DECKING: This substrate may present potential adhesion problems. Topcoats should be spot applied, allowed to cure overnight, and then evaluated for adhesion. If adhesion is good, the application may proceed.

WOOD: Unpainted wood or wood in poor condition should be sanded smooth, wiped clean, then primed. Any knots or resinous areas must be sealed before painting. Countersink all nails, putty flush with surface, then prime.

RECOMMENDED PRIMERS

Aluminum	17-921, Self-priming
Concrete / Masonry Block (block fillers)	6-7, 6-15
Concrete, Masonry (primers, sealers)	4-603, 17-921, Self-priming
Ferrous Metal	90-712
Galvanized Steel	17-921, 90-712, Self-priming
Gypsum Wallboard-Drywall	6-2, 6-4, 9-900, Self-priming
Plaster	4-603, 17-921, Self-priming
Pre-Primed Metal Roof Decking	Self-priming
Wood	6-2, 9-900, 17-921

LIMITATIONS OF USE

Apply when air, surface and product temperatures are between 50°F and 90°F (10° and 30°C). Intended for spray application only. Not recommended for immersion service. Some types of machinery and equipment may still require covers as a protection against possible damage to working parts (such as bearings, etc.) Clean any dry overspray before rolling scaffold or allowing foot traffic into area. Proper ventilation is required to prevent excessive humidity build-up which would inhibit dry-fogging properties. Test all spray equipment in a remote area for the proper tips, pressure settings and free-fall drying before proceeding.

FOR INTERIOR USE ONLY. PROTECT FROM FREEZING.

PACKAGING

5-Gallon (18.9 L)

6-725XI available in 55 Gallon (208 L) container

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