



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 .0017"

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.ppghcp.com or by calling 1-800-441-9695.

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