HPC/Industrial Maintenance

Sil-Shield™ Silicone Alkyd Enamel High Gloss

Generic Type

Silicone Alkyd Copolymer

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
Ferrous Metal
Galvanized Steel
Concrete, Stucco, Plaster, Masonry
CMU

Features / Benefits

Durable high gloss finish
Superior fade resistance
Excellent gloss retention
Heat resistant to 350ºF (177ºC)
Meets the performance requirements of Federal Standards TT-E-490 and TT-E-1593

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, alkalies, and solvent**. **Apply only when air, and the product and surface temperatures are** 40ºF (5ºC) **or higher, and when the surface temperature is at least** 5ºF (3ºC) 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.
Drying times listed may vary depending on temperature, humidity and air movement. DANGER: **Rags, steel wool or waste 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.

Tinting and Base Information

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

95-5000	Neutral Base
95-5012	White Base

Product Data

Gloss:	Gloss: +75 (60° Gloss Meter)
VOC*:	2.65 lbs/gal 317.00 g/L
Coverage:	407 to 679 sq ft/gal (38 to 63 sq. m/3.78L)

*Note: **Does not include loss due to varying application method, surface porosity, or mixing.***

DFT:	1.5 minimum to 2.5 maximum
Weight/Gallon*:	10.0 lbs. (4.5 kg) +/- 0.2 lbs. (91 g)
Volume Solids*:	63.3% +/- 2%
Weight Solids*:	73.4% +/- 2%
Clean-up:	PPG 97-727 Thinner or Xylene

Results will vary by color, thinning and other additives.
*Product data calculated on 95-5000

Drying Time:

To Touch:	4 hours
To Handle:	6 hours
To Recoat:	24 hours

Dry Time @77°F (25°C); 50% relative humidity

In Service Temperature:

Dry Heat (F): 350° Dry Heat (C): 177°

Flash Point: 95-5000 106°F, (41°C)
95-5012 106°F, (41°C)

General Surface Preparation

The surface to be coated must be dimensionally stable, 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.

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.**

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.

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.

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

FERROUS METAL: The recommended surface preparation is Commercial Blast Clean per SSPC-SP6. The minimum surface preparation is Hand Tool or Power Tool Clean per SSPC-SP2 or SP3.

Recommended Primers

Concrete,Stucco,Plaster,Masonry other than CM Unit	4-603
Concrete Masonry Units	**6-15, 6-16**
Ferrous Metal	**6-208, 94-258, 97-680**
Galvanized Steel	**6-209, 90-712**
Aluminum	**90-712, 6-204**

Directions for Use

Mix thoroughly before and during use. 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.

Permissible temperatures during application:

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

Application Information

Recommended Spread Rates:

Wet Mils :	2.4	minimum to	3.9	maximum
Wet Microns:	61.0	minimum to	99.1	maximum
Dry Mils :	1.5	minimum to	2.5	maximum
Dry Microns:	38.1	minimum to	63.5	maximum

Application Equipment: Changes in application equipment, pressures 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.

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: 30-60 Fluid Pressure: Can not **specify, dependent on numerous factors.**

Airless Spray: Pressure: 2000-2500 psi, tip 0.013" - 0.017"

Brush: High Quality Natural Bristle Brush

Roller: **3/8" nap woven roller**

Thinning:

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

Packaging: **1-Gallon (3.78L)** **5-Gallon (18.9L)**

Not all products are available in all sizes. All containers are not full-filled.

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