

SIL-SHIELD | 95-5000 SERIES

DESCRIPTION

One-component, high-gloss silicone alkyd enamel

PRINCIPAL CHARACTERISTICS

- Durable high-gloss finish
- VOC Compliant <2.8 lb/ gal
- Excellent color and gloss retention
- Heat resistance to 350°F (175°C)

COLOR AND GLOSS LEVEL

- White base, Neutral base
- Gloss

Note: Certain colors, especially red, orange, and yellow may require additional coats for adequate hiding, especially if applied over primers with a significant color contrast

BASIC DATA AT 68°F (20°C)

Data for product	
Number of components	One
Volume solids	63 ± 2%
VOC (Supplied)	max. 2.7 lb/US gal (approx. 318 g/l)
Recommended dry film thickness	1.5 - 2.5 mils (38 - 64 µm) depending on system
Theoretical spreading rate	673 ft ² /US gal for 1.5 mils (17.0 m ² /l for 38 µm)
Shelf life	At least 24 months when stored cool and dry

Notes:

- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is proportional to the degree of surface preparation. Refer to the application instructions for specific primers and intermediate coats for application and curing procedures. Ensure epoxies are free from amine blush prior to overcoating. All previous coats must dry and free of contaminants. Adhere to all minimum and maximum topcoat times for specific primers and intermediate coats. Aged epoxy coatings require abrading prior to applying the product. A test patch over unknown coatings is recommended.

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Substrate temperature and application conditions

- Surface temperature during application should be between 40°F (4°C) and 130°F (54°C)
- Surface temperature during application should be at least 5°F (3°C) above dew point
- Ambient temperature during application and curing should be between 40°F (4°C) and 100°F (38°C)
- Relative humidity during application and curing should not exceed 85%

Warning

Removal of old paint by sanding, scraping or other means may generate dust or fumes which contain lead. EXPOSURE TO LEAD DUST OR FUMES MAY CAUSE ADVERSE HEALTH EFFECTS, ESPECIALLY IN CHILDREN OR PREGNANT WOMEN. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted and approved (e.g., NIOSH approved) respirator and proper containment and cleanup. For additional information, contact the USEPA/Lead Information Hotline at 1-800-424-LEAD or the regional Health Canada office

SYSTEM SPECIFICATION

- Primers for non-ferrous metals: self priming, 90-712, 6-204, 6-208, 6-209
- Primers for CMU: 6-7, 6-15, AMERLOCK 400 BF
- Primers for concrete/masonry: 4-603, AMERLOCK 400
- Primers for ferrous metal: 6-208, 94-258, 97-680, AMERLOCK 400
- Primers for galvanized steel: 17-921, AMERLOCK SERIES

Note: Solvent wipe the surface of the epoxy prior to application. Allow the epoxy to dry achieve a dry through state. If the epoxy has cured greater than 3x the dry through time, abrade the surface prior to coating

INSTRUCTIONS FOR USE

- If material has skinned over, gently remove
- Strain to remove any skin particles prior to agitation
- Agitate with a power mixer for 1 – 2 minutes until completely dispersed. Ensure good off-bottom mixing

Application

- Area should be sheltered from airborne particulates and pollutants
- Avoid combustion gases or other sources of carbon dioxide that may promote amine blush and ambering of light colors
- Ensure good ventilation during application and curing
- Provide shelter to prevent wind from affecting spray patterns

Material temperature

Material temperature during application should be between 40°F (4°C) and 90°F (32°C)

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Air spray

- Use standard conventional equipment
- Ensure there is a moisture and oil trap in the main air line

Recommended thinner

THINNER 21-06 (97-727 THINNER)

Volume of thinner

0 - 5%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.070 in (1.8 mm)

Nozzle pressure

Atomizing pressure 30 - 60 p.s.i. (2.0 - 4.0 bar); Fluid pressure 20 - 30 p.s.i. (1.5 - 2.0 bar)

Airless spray

- 30:1 pump or larger

Recommended thinner

THINNER 21-06 (97-727 THINNER)

Volume of thinner

0 - 7%, depending on required thickness and application conditions

Nozzle orifice

0.013 - 0.015 in (approx. 0.33 - 0.38 mm)

Brush/roller

- Use a high quality natural bristle brush and/or solvent resistant, 1/4" or 3/8" nap roller. Ensure brush/roller is well loaded to avoid air entrainment. Multiple coats may be necessary to achieve adequate film-build

Recommended thinner

THINNER 21-06 (97-727)

Note: Use KL700/Aromatic 100 for flow coating operation or for application over 6-series alkyd primers.

Cleaning solvent

THINNER 21-06 (97-727)



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ADDITIONAL DATA

Overcoating interval for DFT up to 2.0 mils (51 µm)

Overcoating with...	Interval	50°F (10°C)	70°F (21°C)	90°F (32°C)
itself	Minimum	48 hours	24 hours	16 hours
	Maximum	Unlimited	Unlimited	Unlimited

Curing time for DFT up to 2.0 mils (51 µm)

Substrate temperature	Dry to touch	Dry to handle
50°F (10°C)	12 hours	18 hours
70°F (21°C)	5 hours	8 hours
90°F (32°C)	2.5 hours	4 hours

Product Qualifications

- Performance equivalent to TT-E-490 and TT-E-1593

DISCLAIMER

- For industrial or professional use only

SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor as well as contact between the wet paint and exposed skin or eyes

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

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.



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REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431

WARRANTY

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AVAILABILITY

Packaging

1-gallon and 5-gallon kits

Product codes	Description
95-5000	Neutral base*
95-5012	White base

Note: * Must be tinted before use. Tint with PERFORMACOLOR® colorants

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