

# SIL-SHIELD ALKYD LOW VOC

## DESCRIPTION

One-component, high-gloss silicone alkyd enamel

## PRINCIPAL CHARACTERISTICS

- Durable high-gloss finish
- VOC compliant for <250 g/L specifications
- Excellent color and gloss retention
- Heat resistance to 350°F (175°C)

## COLOR AND GLOSS LEVEL

- White base, Neutral base, Red base, Yellow base, Woodland Night
- 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. 249.0 g/l (approx. 2.1 lb/US gal)                                      |
| Recommended dry film thickness | 1.5 - 2.5 mils (38 - 64 µm) depending on system                             |
| Theoretical spreading rate     | 673 ft <sup>2</sup> /US gal for 1.5 mils (17.0 m <sup>2</sup> /l for 38 µm) |
| Shelf life                     | At least 36 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%

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## **SYSTEM SPECIFICATION**

- Primers for non-ferrous metals: self-priming, 4020-1000 Series, 6-208N Series, 6-209N
- Primers for CMU: 6-7, 6-15XI, AMERLOCK 400 BF
- Primers for concrete/masonry: 4-603XI, AMERLOCK 400
- Primers for ferrous metal: 6-208N Series, AMERLOCK 400
- Primers for galvanized steel: 17-921XI, 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

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## **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

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## **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

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## **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**

No thinner should be added

## **Nozzle orifice**

Approx. 0.070 in (1.8 mm)

## **Nozzle pressure**

Atomizing pressure 30 - 60 psi (2.0 - 4.0 bar); Fluid pressure 20 - 30 psi (1.5 - 2.0 bar)

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## **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)

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## **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.
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## **Cleaning solvent**

- THINNER 21-06 (97-727)
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## ADDITIONAL DATA

| Overcoating interval for DFT up to 2.0 mils (50 µm) |          |            |             |             |             |
|---|----------|------------|-------------|-------------|-------------|
| Overcoating with...                                 | Interval | 40°F (4°C) | 50°F (10°C) | 70°F (21°C) | 90°F (32°C) |
| itself  | Minimum  | 60 hour    | 48 hours    | 24 hours    | 16 hours    |
|   | Maximum  | Unlimited  | Unlimited   | Unlimited   | Unlimited   |

| Curing time for DFT up to 2.0 mils (50 µm) |              |               |
|--|--------------|---------------|
| Substrate temperature                      | Dry to touch | Dry to handle |
| 40°F (4°C)                                 | 14 hours     | 22 hours      |
| 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

- Meets MPI Category #9 Alkyd, Exterior Gloss, MPI Gloss Level 6
- Performance equivalent to TT-E-490 and TT-E-1593

## DISCLAIMER

- For industrial or professional use only

## SAFETY PRECAUTIONS

- 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
- 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

## 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](http://www.pittsburghpaints.com), Spontaneous Combustion Advisory for additional information

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## WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective & 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.

## REFERENCES

- Information sheet | Explanation of product data sheets

## WARRANTY

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## AVAILABILITY OF PACKAGING

### Packaging

- 1-gallon and 5-gallon containers

Depending on specific country of application the following versions are available:

| Product  | Color          |
|----------|----------------|
| 95-5000N | Neutral base*  |
| 95-5012N | White base     |
| 95-5002N | Yellow base    |
| 95-5813N | Woodland Night |
| 95-5003N | Red base       |

### Notes:

- \* Must be tinted
- \* Tintable using 844 or 4257 line colorants

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