



HPC/Industrial Maintenance

SPEEDHIDE® Int/Ext Heat Resistant Coating

Generic Type

Unmodified Silicone Resin

Tinting and Base Information

Do Not Tint  
6-220 Aluminum

General Description

Recommended for use as a finish coat for hot surfaces with in-use temperatures from 450°F (232°C) to 1000°F (538°C). SPEEDHIDE® Interior/Exterior Heat Resistant Coating is an unmodified silicone aluminum coating. SPEEDHIDE Heat Resistant Coating provides maximum resistance to the formation of blisters at high temperatures by being applied at 1 mil (dry) coat. In order to insure heat resistance, the product must be heated to 450°F (232°C) within two to 24 hours after application.

Recommended Uses

Ferrous Metal

Features / Benefits

- Excellent Adhesion
- Heat Resistant from 450°F (232°C) to 1000°F (538°C)
- Blister resistant
- Aluminum finish, Eggshell sheen
- Meets MPI Category #2, Aluminum Heat Resistant Enamel
- Meets MPI Category #22, Aluminum Paint, High Heat

Limitations of Use

Apply when air and surface temperatures are above 50°F (10°C), and surface temperature is at least 5°F (3°C) above the dew point. Avoid exterior application late in the day when dew and condensation are likely to form or if rain is threatening. Not recommended for surfaces with in-use temperatures below 450°F (232°C). Material must be cured by heating to 450°F (232°C) for one hour, within 2 to 24 hours after application. If left at ambient temperatures for a prolonged period of time after application, service life will be seriously affected. Do not apply to surfaces with temperature 140°F (60°C) at painting time. Do not exceed a maximum of 2 mils dry film build in order to maintain heat resistance properties. Do not topcoat with a latex coating. Not recommended for immersion service. Drying times listed may vary depending on temperature, humidity, color and air movement. For Professional Use Only; Not Intended for Household Use.

Product Data

- Gloss:** Eggshell
- VOC\*:** 4.85 lbs/gal 581.70 g/L
- Coverage:** 239 to 478 sq ft/gal (22 to 44 sq. m/3.78L)
- Note: Does not include loss due to varying application method, surface porosity, or mixing.*
- DFT:** 1.0 minimum to 1.5 maximum
- Weight/Gallon\*:** 8.3 lbs. (3.7 kg) +/- 0.2 lbs. (91 g)
- Volume Solids\*:** 29.8% +/- 2%
- Weight Solids\*:** 41.7% +/- 2%
- Clean-up:** VM & P Naphtha

Results will vary by color, thinning and other additives.

\*Product data calculated on 6-220

Drying Time:

- To Touch: 4 hours
- To Handle: 9 hours
- To Recoat: After curing@450°F
- Dry Time @77°F (25°C); 50% relative humidity

In Service Temperature:

Dry Heat (F): 1,000° Dry Heat (C): 538°

Flash Point: 42°F, (6°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. **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](http://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.

Abrasive blasting to near white metal SSPC-SP 10 (NACE No. 2) is required if this product is to be applied directly to a ferrous substrate, and to achieve maximum in-service temperature limitation of 1000°F (538°C). Maximum resistance to high temperature blistering is secured when the coating is applied as one thin coat (approximately 1 mil dry film per coat). Recoat after curing at 450°F (232°C). Material must be cured by heating to 450°F (232°C) for one hour, within 2 to 24 hours after application.

**FERROUS METAL:** For high heat, the minimum surface preparation is Near White Metal Blast Clean per SSPC-SP10, with an anchor pattern of 0.5 to 0.75 mils.

**Recommended Primers**

none Refer to Surface Preparation Recommendations

**Application Information**

**Recommended Spread Rates:**

Wet Mils :	3.4	minimum to	6.7	maximum
Wet Microns:	86.4	minimum to	170.2	maximum
Dry Mils :	1.0	minimum to	1.5	maximum
Dry Microns:	25.4	minimum to	38.1	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:** DeVilbiss MBC 510, E or FF tip and needle, 704 or 765 air cap or equivalent.

**Airless Spray:** Not Recommended

**Brush:** High Quality Polyester/Nylon Brush

**Roller:** Not Recommended

**Thinning:**  
DO NOT THIN.

**Directions for Use**

Mix thoroughly before and during use. Spray application is preferred. Small areas may be brushed. 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. Read all Material Safety Data Sheet (MSDS) information prior to use. MSDS are available through our website or by calling 1-800-441-9695.

**Permissible temperatures during application:**

Material:	60 to 90°F	15 to 32°C
Ambient:	50 to 100°F	10 to 38°C
Substrate:	50 to 130°F	10 to 54°C

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

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

PPGAF believes the technical data presented is currently accurate: however, no guarantee of accuracy, comprehensiveness, or performance is given or implied. Improvements in coatings technology may cause future technical data to vary from what is in this bulletin. For complete, up-to-date technical information, visit our web site or call 1-800-441-9695.



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