



# SILICONE ALKYD HI HEAT COATING V264

## Features

- Aluminum colour
- High-heat resistance allows for use on industrial machinery, hot metal ducting and exhaust vents
- Fast dry; quick return to service
- Uses include heat stacks, boiler jackets, heat exchangers, drying kilns, and incinerators
- Not for interior residential use

## Recommended For

Ferrous metal (steel and iron) Corotech® Silicone Alkyd Hi Heat Coating can be used on high heat stacks, boiler jackets or breechings, heat exchangers, drying kilns, incinerators and oven exteriors. Do not apply to galvanized metal.

## General Description

Silicone Alkyd High-Heat Coating is designed to protect steel that is exposed to heat ranges up to 800°F (425°C). This product exhibits excellent weathering, resists mild industrial chemicals and moisture and is specific to industrial use.

## Limitations

- Not intended for residential or commercial use.
- Not for immersion or extreme chemical exposure service.
- Do not apply to galvanized metal.
- Surface and air temperatures for application must be between 10 °C (50 °F) and 32 °C (90 °F)
- The surface must be dry and at least 5 degrees above the dew point. Humidity must be 90% or less.

## Product Information

<p><b>Colours — Standard:</b> Aluminium (78)</p> <p><b>— Tint Bases:</b> N/A</p> <p><b>— Special Colours:</b> Contact your retailer</p> <p>Certification:  The product supported by this data sheet contains a maximum of 500 grams per litre VOC / VOS (4.17 lb. /gal.) excluding water and exempt solvents.</p> <p>This product is compliant under the Ozone Transport Commission regulations as a Metallic Pigmented Coating.</p> <p>Masters Painters Institute MPI #2.</p> <p>Meets the performance requirements of TT-P-28H.</p>	<table border="1"> <thead> <tr> <th colspan="2">Technical Data◇</th> <th>Aluminum</th> </tr> </thead> <tbody> <tr> <td>Vehicle Type</td> <td></td> <td>Modified Silicone Alkyd</td> </tr> <tr> <td>Pigment Type</td> <td></td> <td>Aluminum Metal</td> </tr> <tr> <td>Volume Solids</td> <td></td> <td>43 ± 1.0%</td> </tr> <tr> <td>Coverage per 3.79 L at</td> <td></td> <td>32.5 – 37.1 sq. m. (350</td> </tr> <tr> <td>Recommended Film Thickness</td> <td></td> <td>– 400 sq. ft.)</td> </tr> <tr> <td>Recommended Film Thickness</td> <td>– Wet</td> <td>4.0 - 4.6 mil</td> </tr> <tr> <td></td> <td>– Dry</td> <td>1.7 - 2.0 mil</td> </tr> <tr> <td colspan="3">Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure colour uniformity and minimize the disposal of excess paint.</td> </tr> <tr> <td>Dry Time @ 25 °C (77 °F) @ 50% RH</td> <td>– Tack Free</td> <td>1 Hour</td> </tr> <tr> <td></td> <td>– To Recoat*</td> <td>4 Hours</td> </tr> <tr> <td></td> <td>– Full Cure</td> <td>7 Days Air Dry</td> </tr> <tr> <td colspan="3"><b>*Maximum Recoat: Unlimited</b></td> </tr> <tr> <td colspan="3">High humidity and cool temperatures will result in longer dry, recoat and service times.</td> </tr> <tr> <td>Dries By</td> <td></td> <td>Oxidation</td> </tr> <tr> <td>Viscosity</td> <td></td> <td>75 – 85 KU</td> </tr> <tr> <td>Flash Point</td> <td></td> <td>35 °C (104 °F) (TT-P-141, Method 4293)</td> </tr> <tr> <td>Gloss / Sheen</td> <td></td> <td>N/A</td> </tr> <tr> <td>Surface Temperature at application</td> <td>– Min.</td> <td>10 °C (50 °F)</td> </tr> <tr> <td></td> <td>– Max.</td> <td>32 °C (90 °F)</td> </tr> <tr> <td>Thin With</td> <td></td> <td>Do Not Thin</td> </tr> <tr> <td>Clean Up Thinner</td> <td></td> <td>Corotech® V703 Xylene</td> </tr> <tr> <td>Weight Per 3.79 L</td> <td></td> <td>94.1 kg (9.0 lbs.)</td> </tr> <tr> <td>Storage Temperature</td> <td>– Min.</td> <td>7.2 °C (45 °F)</td> </tr> <tr> <td></td> <td>– Max.</td> <td>35 °C (95 °F)</td> </tr> <tr> <td colspan="3" style="text-align: center;"><b>Volatile Organic Compounds (VOC)</b></td> </tr> <tr> <td colspan="3" style="text-align: center;">430 g/L 3.58 Lbs./3.79 L</td> </tr> </tbody> </table>	Technical Data◇		Aluminum	Vehicle Type		Modified Silicone Alkyd	Pigment Type		Aluminum Metal	Volume Solids		43 ± 1.0%	Coverage per 3.79 L at		32.5 – 37.1 sq. m. (350	Recommended Film Thickness		– 400 sq. ft.)	Recommended Film Thickness	– Wet	4.0 - 4.6 mil		– Dry	1.7 - 2.0 mil	Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure colour uniformity and minimize the disposal of excess paint.			Dry Time @ 25 °C (77 °F) @ 50% RH	– Tack Free	1 Hour		– To Recoat*	4 Hours		– Full Cure	7 Days Air Dry	<b>*Maximum Recoat: Unlimited</b>			High humidity and cool temperatures will result in longer dry, recoat and service times.			Dries By		Oxidation	Viscosity		75 – 85 KU	Flash Point		35 °C (104 °F) (TT-P-141, Method 4293)	Gloss / Sheen		N/A	Surface Temperature at application	– Min.	10 °C (50 °F)		– Max.	32 °C (90 °F)	Thin With		Do Not Thin	Clean Up Thinner		Corotech® V703 Xylene	Weight Per 3.79 L		94.1 kg (9.0 lbs.)	Storage Temperature	– Min.	7.2 °C (45 °F)		– Max.	35 °C (95 °F)	<b>Volatile Organic Compounds (VOC)</b>			430 g/L 3.58 Lbs./3.79 L		
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◇ Reported values are for Aluminum.

### Surface Preparation

The performance of this product is directly dependent upon the degree of surface preparation employed. All dirt, oils and accumulated salts must be removed prior to employing specific surface preparation methods. SSPC-SP 1 Solvent Cleaning will best accomplish this task.

**Previously Painted or Primed Surfaces:** Ensure that the surface is clean, dry and free of oil, grease, dirt, salts and any other contaminants. Clean with Corotech V600 Oil and Grease Emulsifier. All blistered and loose paint must be removed. All bare metal must be primed with an initial coat of V264-78 before applying a full coat on the entire surface. Glossy surfaces should be roughened up before painting.

**Ferrous Metal:** All contaminants, rust and mill scale should be removed prior to application of this product. This is best accomplished by abrasive blasting. A minimum of SSPC-SP 6 Commercial Blast is recommended for severe environmental exposures. Small areas may be cleaned in accordance with SSPC-SP 2 Hand Tool Cleaning or SSPC-SP 3 Power Tool Cleaning or SSPC-SP 11 Power Tool Cleaning to Bare Metal.

**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator 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 logging onto Health Canada @ [http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked\\_questions-questions\\_posees-eng.php](http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked_questions-questions_posees-eng.php)

### Application

Mix the product thoroughly before application. The use of a drill mixer at low speed will best accomplish this. Due to the fast dry of this product, only small areas should be coated by brush or roller. Spray application is preferred. Surface and air temperatures for application must be between 10 °C (50 °F) and 32 °C (90 °F). The surface must be dry and at least 5 degrees above the dew point. Humidity must be 90% or less.

**Airless Spray:** Tip range between .013 and .017. Total fluid output pressure at the tip should not be less than 2200 PSI. Preferred pressure is 2500 PSI.

**Air Spray:** [Pressure Pot] DeVilbiss 510 gun, with 704 air cap and fluid tip FF. Pot pressure should be at 40 - 60 and atomizing pressure should be 15 - 25.

**Brush or Roll:** Can be brushed using a natural bristle brush or rolled using a 10 mm - 13 mm lambs wool phenolic core roller cover.

**NOTE:** Do not allow material to remain in hoses, gun, or spray equipment. Thoroughly flush all equipment with recommended thinner. No reduction is necessary.

### Clean Up

Clean with Corotech® V703 Xylene.

### Environmental Health and Safety Information

**Danger!**

**Causes skin irritation**

**May cause an allergic skin reaction**

**May cause genetic defects**

**May cause cancer**

**Causes damage to organs through prolonged or repeated exposure**

**May be fatal if swallowed and enters airways**

**Flammable liquid and vapor**

**Risk of spontaneous combustion**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Do not breathe dust /fume /mist /vapors /spray. Do not eat, drink or smoke when using this product. Keep away from heat /sparks /open flames /hot surfaces, no smoking. Keep container tightly closed. Ground /bond container and receiving equipment. Use explosion-proof electrical /ventilating /lighting /equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Immediately after use, place rags, steel wool or waste used with this product in a sealed water-filled metal container or lay flat to dry.

**Response:** If exposed or concerned get medical attention. If skin irritation or rash occurs get medical attention. If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. If swallowed immediately call a POISON CENTER or physician. Do NOT induce vomiting. In case of fire use CO2, dry chemical, or foam for extinction.

**Storage:** Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents /container to an approved waste disposal plant. Materials such as rags used with this product may begin to burn by themselves. After use, put rags in water or lay flat to dry, then discard.

This document represents hazards of the product referenced above. Refer to the individual Safety Data Sheet for hazards of the specific product you will be using.

**KEEP OUT OF REACH OF CHILDREN**

**Refer to Safety Data Sheet for additional health and safety information.**