



ALKYD URETHANE ENAMEL GLOSS V200-78 ALUMINUM

Features

- Urethane modification for maximum durability
- Easy application
- Hard, scratch- and impact-resistant coating
- For use on all surfaces

Recommended For

Corotech® Alkyd Urethane Enamel Gloss is intended for use as an interior and exterior coating on a wide variety of surfaces, such as previously painted surfaces, ferrous metal, wood, and drywall. It is most commonly used in industrial or professional applications. This product is not recommended for direct application to non-ferrous metals such as galvanized metal or aluminum unless primed with V110 Acrylic Metal Primer.

General Description

V200 is a heavy-duty alkyd enamel intended for use on a wide variety of surfaces, both interior and exterior. The surface-tolerant formula sticks to surfaces that may be marginally prepared, and the exceptional flow and leveling provides a smooth, uniform finish. Made with our toughest alkyd resin, this paint stands up to mechanical and human abuse, while the urethane fortification adds gloss and color retention in exterior spaces exposed to sunlight and rain.

Limitations

- Do not apply if material, substrate or ambient temperature is below 50 °F (10° C). Relative humidity should be below 90%.
- Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application.
- Not for immersion service.
- DO NOT topcoat with products such as epoxies or urethanes containing aromatic or oxygenated solvents.

Product Information

<p>Colors — Standard: Aluminum (78)</p> <p>— Tint Bases: N/A Do Not Tint</p> <p>— Special Colors: N/A</p> <p>Certifications & Qualifications:</p> <p>The products supported by this data sheet contain a maximum of 450 grams per liter VOC / VOS (3.7 lbs./gal.) excluding water & exempt solvents.</p> <p>Master Painters Institute MPI # 1 Meets the performance requirements for SSPC #101 & #108 Suitable for use in USDA inspected facilities</p>	<table border="1"> <thead> <tr> <th colspan="2">Technical Data◇</th> <th>Aluminum</th> </tr> </thead> <tbody> <tr> <td>Vehicle Type</td> <td colspan="2">Modified Alkyd</td> </tr> <tr> <td>Pigment Type</td> <td colspan="2">Titanium Oxide</td> </tr> <tr> <td>Volume Solids</td> <td colspan="2">43 ± 1.0%</td> </tr> <tr> <td>Coverage per Gallon at Recommended Film Thickness</td> <td colspan="2">400 – 450 Sq. Ft.</td> </tr> <tr> <td rowspan="2">Recommended Film Thickness</td> <td>– Wet</td> <td>3.6 – 4.0 mils</td> </tr> <tr> <td>– Dry</td> <td>1.5 – 1.7 mils</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 color uniformity and minimize the disposal of excess paint.</td> </tr> <tr> <td rowspan="3">Dry Time @ 77 °F (25 °C) @ 50% RH</td> <td>– Tack Free</td> <td>4 Hours</td> </tr> <tr> <td>– To Recoat</td> <td>12 Hours</td> </tr> <tr> <td>– Full Cure</td> <td>4 – 6 Days</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 colspan="2">Oxidation</td> </tr> <tr> <td>Viscosity</td> <td colspan="2">80 – 85 KU</td> </tr> <tr> <td>Flash Point</td> <td colspan="2">104 °F (TT-P-141, Method 4293)</td> </tr> <tr> <td>Gloss/Sheen</td> <td colspan="2">Gloss (80+ units @ 60°)</td> </tr> <tr> <td rowspan="2">Surface Temperature at Application</td> <td>– Min.</td> <td>50 °F</td> </tr> <tr> <td>– Max.</td> <td>90 °F</td> </tr> <tr> <td>Thin With</td> <td colspan="2">Do Not Thin</td> </tr> <tr> <td>Clean Up Thinner</td> <td colspan="2">V701 Brushing Reducer or Mineral Spirits</td> </tr> <tr> <td>Weight Per Gallon</td> <td colspan="2">9.8 Lbs.</td> </tr> <tr> <td rowspan="2">Storage Temperature</td> <td>– Min.</td> <td>45 °F</td> </tr> <tr> <td>– Max.</td> <td>95 °F</td> </tr> <tr> <td colspan="3" style="text-align: center;">Volatile Organic Compounds (VOC)</td> </tr> <tr> <td colspan="2">438 Grams/Liter</td> <td>3.7 Lbs./Gallon</td> </tr> </tbody> </table>	Technical Data◇		Aluminum	Vehicle Type	Modified Alkyd		Pigment Type	Titanium Oxide		Volume Solids	43 ± 1.0%		Coverage per Gallon at Recommended Film Thickness	400 – 450 Sq. Ft.		Recommended Film Thickness	– Wet	3.6 – 4.0 mils	– Dry	1.5 – 1.7 mils	Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.			Dry Time @ 77 °F (25 °C) @ 50% RH	– Tack Free	4 Hours	– To Recoat	12 Hours	– Full Cure	4 – 6 Days	High humidity and cool temperatures will result in longer dry, recoat and service times.			Dries By	Oxidation		Viscosity	80 – 85 KU		Flash Point	104 °F (TT-P-141, Method 4293)		Gloss/Sheen	Gloss (80+ units @ 60°)		Surface Temperature at Application	– Min.	50 °F	– Max.	90 °F	Thin With	Do Not Thin		Clean Up Thinner	V701 Brushing Reducer or Mineral Spirits		Weight Per Gallon	9.8 Lbs.		Storage Temperature	– Min.	45 °F	– Max.	95 °F	Volatile Organic Compounds (VOC)			438 Grams/Liter		3.7 Lbs./Gallon
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Surface Preparation

The performance of this product is directly dependent upon the degree of surface preparation employed. All Grease Oil, Dirt, Mildew, or any other surface contaminants must be removed using Corotech V600 Oil & Grease Emulsifier.

Ferrous Metal: All 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. It is recommended that the prepared ferrous metal be primed for best corrosion resistance.

Non-Ferrous Metals: Solvent Clean or use Corotech® V600 Oil & Grease Emulsifier in accordance with SSPC-SP1. The use of an Acrylic or Phenolic Alkyd primer on non-ferrous metals is recommended.

Concrete: Form release agents and curing compounds must be removed prior to coating. The concrete to be coated must be opened to enable coating penetration; this may be accomplished by acid washing or abrasive blasting. Coarse masonry should be primed with appropriate block filler.

Plaster and Dry Wall: Prime new drywall and cured plaster with a quality acrylic primer. Apply one or two finish coats as needed.

Wood Surfaces: Prime bare spots and new wood with a quality acrylic primer. Apply one or two finish coats as needed.

For use on substrates other than specified above, please contact our Technical Service Department.

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 contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

TEST DATA	
Flexibility (ASTM D1737)	Pass 1/4" (6.35 mm) Mandrel
Dry Heat Resistance	275 °F (135 °C)
Wet Heat Resistance	150 °F (65.5 °C)
Adhesion (ASTM D3359)	Pass 5B
Salt Fog Resistance (ASTM B117) Two coats over V140 Line primer	500 Hours-Pass (Rating 10, Rust Area 0.00%)
Accelerated Weather (ASTM G53)	70% Retention after 500 Hrs.
Abrasion Resistance (ASTM D4060)-CS10 Wheel	120mg loss after 1000 cycles

CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
Fresh Water	Excellent
Salt Water	Good
Acids	Fair
Alkalis	Fair
Solvents	Fair
Fuel	Fair
Acidic Salt Solutions	Good
Alkaline Salt Solutions	Good
Neutral Salt Solutions	Good

SYSTEMS RECOMMENDATIONS	
COMPATIBLE PRIMERS	
V110 Line, V114, V130, V131 Line, V132 Line, V133 Line, V140 Line, V142 Line, V155, V150 Line, V160 Line, V163, V175, V180 and other acrylic and alkyd primers	

Application

Mix the product thoroughly before application. The use of a drill mixer at low speed will best accomplish this.

Airless Spray: Tip range between .013 and .017. Total fluid output pressure at tip should not be less than 2200 psi.

Air Spray (Pressure Pot): DeVilbiss MBC or JGA gun, with 704 or 765 air cap and Fluid Tip E.

Brush / Roller: Can be brushed using a natural bristle brush or rolled using a 3/8" lambs wool or 1/4" - 1/2" synthetic roller cover. Roll in one direction, rewet, then cross roll.

NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner. No reduction is necessary. Do not apply if material, substrate or ambient temperature is below 50°F (10°C). Relative humidity should be below 90%. Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application.

Clean Up

Clean with V701 Brushing Reducer or Mineral Spirits.

Environmental Health & Safety Information

DANGER!

Harmful if inhaled

Causes skin irritation

May cause genetic defects

Suspected of causing cancer

Causes damage to organs through prolonged or repeated exposure

May be fatal if swallowed and enters airways

Flammable liquid and vapor

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Wash face, hands and any exposed skin thoroughly after handling. 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.

Response: If exposed or concerned get medical attention. If skin irritation 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 inhaled remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

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.



WARNING: Cancer and Reproductive Harm—
www.P65warnings.ca.gov.

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
FOR PROFESSIONAL USE ONLY**

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