

<h2>801-4460</h2>	<h2>100% Solids Long Oil Alkyd</h2>														
<h3>Description</h3>	<p>CHEMPOL[®] 801-4460 is a 100% solids soya-based long oil alkyd. It is based on CCP's unique sucrose ester technology which provides high crosslink density at low molecular weight. This combination offers fast positive dry at low VOC content. CHEMPOL[®] 801-4460 will meet 150 g/l VOC requirements for architectural enamels.</p>														
<h3>Performance Characteristics</h3>	<ul style="list-style-type: none"> • Excellent flow, leveling, and brushability • Dry characteristics comparable to conventional alkyd systems • Good metal adhesion and wetting characteristics • Good color and gloss retention • Excellent flexibility and solvent resistance 														
<h3>Recommendations for Use</h3>	<ul style="list-style-type: none"> • Architectural Interior/Exterior enamels • Water-proofing Wood Stains • Wiping Stains • Aerosols 														
<h3>Sales Specifications</h3>	<table border="1"> <tr> <td>% Solids</td> <td>100</td> </tr> <tr> <td>Viscosity GH, as Supplied</td> <td>Z2-Z4</td> </tr> <tr> <td>Reduced Viscosity, 70% in Mineral Spirits</td> <td>A-D</td> </tr> <tr> <td>Acid Value (max), on Solids</td> <td>4</td> </tr> <tr> <td>Color (max), GH</td> <td>7</td> </tr> <tr> <td>Wt/gal, lb/gal.</td> <td>8.1-8.3</td> </tr> <tr> <td></td> <td></td> </tr> </table>	% Solids	100	Viscosity GH, as Supplied	Z2-Z4	Reduced Viscosity, 70% in Mineral Spirits	A-D	Acid Value (max), on Solids	4	Color (max), GH	7	Wt/gal, lb/gal.	8.1-8.3		
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<h3>Storage</h3>	<p>CHEMPOL[®] 801-4460 should be stored indoors in the original unopened container at temperatures between 40 °F and 100 °F. Exposure to direct sunlight should be avoided. Under proper storage conditions, the shelf life will be 1 year from date of manufacture. Material safety data sheet is available on request</p>														

Dry Characteristics as Clear Film (1.5. mil wet on glass):

Drier Content (% metal based on polymer solids):

- 0.07% Co
- 0.1% Ca
- 0.2% Zr
- 0.6% Activ-8
- 0.2% Anti-skinning Agent

- Set: 2:15
- 200 g Zapon: 4:00
- 500 g Zapon: 4:30
- Dry Hard: 5:20

LOW VOC WHITE LONG OIL ALKYD ENAMEL

0.8 VOC

<u>INGREDIENTS</u>	<u>POUNDS</u>	<u>GALLONS</u>
CHEMPOL® MPS 801-4460	122.24	14.85
Mineral Spirits	61.12	9.49
¹ Crayvallac® OC-150	6.11	0.49
² Byk P104	4.89	0.62
³ TiPure® R902	488.97	14.68
⁴ Lampblack	0.10	0.01
High Speed Cowles disperse 15 minutes and letdown with		
CHEMPOL® MPS 801-4460	460.91	56.01
⁵ 12% Cobalt	3.37	0.40
⁶ Exkin® #2	2.49	0.33
⁷ Activ-8	3.37	0.39
⁸ 5% Calcium	11.59	1.54
⁹ 12% Zirconium	9.72	1.20
	<u>1174.92</u>	<u>100.00</u>

PAINT PROPERTIES

		<u>Viscosity</u>	<u>VOC</u>
% solids by weight	93.2	128 KU	97 g/l
% solids by volume	87.9	115 KU	118 g/l
P/B wt. ratio	0.81	104 KU	135 g/l
% PVC	16.7	98 KU	155 g/l
Viscosity, KU	128		
VOC, pounds / gallon	0.80		
grams / liter	97		

Dry – 1.5 mils wet over glass

Set to touch	2	hours
500 gram Zapon	4	hours
Dry Hard	5 - 5½	hours

Paint Film Properties - 7 days air dry over Bare CRS

Mils DFT	2.2
Crosshatch adhesion	3B
20° / 60° gloss	79 / 90
MEK dr's to metal	300+
Pencil hardness	2B
Direct impact	160+
1/8" conical mandrel	pass

FORMULATION NOTES

Ingredient Description Supplier

¹ Crayvallac® OC-150	Organoclay thixotrope	Cray Valley / CCP
² Byk P104	Pigment dispersant	Byk Chemie
³ R902	Titanium dioxide	DuPont
⁴ Lampblack	LB1011	Elementis
⁵ Cobalt 12%	Cobalt Ten-Cem	OMG Group, Inc.
⁶ Exkin® #2	Anti Skin Agent	Condea Servo LLC
⁷ Activ-8	Cobalt chelating agent	R. T. Vanderbilt
⁸ 5% Calcium	Calcium Ten-Cem	OMG
⁹ 12% Zirconium Through drier	OMG	

COOK COMPOSITES AND POLYMERS CO.

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