



PRODUCT INFORMATION

CHEMPOL[®] MPS 4460-K

Polymers Suggested Starting Formulation

www.ccponline.com

This guide formulation meets the performance requirements for MPI Specification #48.

GLOSS WHITE ENAMEL

1.55 VOC

<u>INGREDIENTS</u>	<u>POUNDS</u>	<u>GALLONS</u>
CHEMPOL [®] MPS 4460	111.95	13.60
Mineral Spirits	64.93	10.02
¹ Crayvallac [®] OC-150	4.70	0.38
² Crayvallac [®] SUPER	4.70	0.56
³ Byk P104	3.69	0.47
⁴ Titanium Dioxide	372.79	11.20
⁵ Calcium carbonate	36.94	1.64
High Speed Cowles disperse ~20 minutes and letdown with		
CHEMPOL [®] MPS 4460	391.43	47.56
⁶ 12% Cobalt	1.68	0.20
⁷ XL-Dri	2.03	0.23
⁸ 12% Zirconium	20.95	2.59
⁹ Exkin [®] #2	2.75	0.36
¹⁰ Byk 320	2.75	0.39
Mineral Spirits	<u>70.03</u>	<u>10.81</u>
	1091.34	100.00

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PAINT PROPERTIES

% solids by weight	85.8
% solids by volume	76.5
P/B wt. ratio	0.79
% PVC	17.3
Viscosity, KU	86 – 88 KU
VOC, pounds / gallon	1.55
grams / liter	186

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Replaces: None

CHEMPOL[®] MPS 4460-K

Technology Description

CHEMPOL MPS 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.

Formulation Features

Solvent-based long oil alkyd paint
 High organic renewable content
 High crosslink density
 High solids and low VOC
 Contains flow and leveling additive
 Optimized drier package

Benefits

- Favorable application characteristic – long open times
- Very high gloss capability

Lower ecological and environmental impacts than other solvent-based paints
 Good solvent resistance and general toughness
 Lower exposure to solvents with potential health impacts compared to traditional solvent-based paints
 Enhances film uniformity and maximizes gloss potential
 Allows thicker film application while maintaining dry to touch times

FILM PROPERTIES – Spray applied over bare CRS and air dried for 1 week before testing

mils DFT	1.1	
Gloss, 20° / 60°	65 / 87	
Dry Times, mils wet over glass	<u>1.5 mils</u>	<u>3.0 mils</u>
Set to touch	4½ hours	4½ hours
500g Zapon	6 - 7 hours	overnight
Dry hard	8 hours	overnight
Dry through	overnight	overnight
MEK dr's to metal	90	
Crosshatch adhesion	4B	
Pencil hardness	3B – 2B	

FORMULATION NOTES

Ingredient

¹Bentone[®] 34
²Crayvallac[®] SUPER
³Byk P104
⁴Titanium Dioxide
⁵Calcium carbonate
⁶Cobalt 12%
⁷XL-Dri Cobalt
⁸12% Zirconium
⁹Exkin[®] #2
¹⁰Byk 320

Description

Organoclay thixotrope
 Polyamide thixotrope
 Pigment dispersant
 TiPure[®] R900
 Omyacarb 3
 Cobalt Ten-Cem
 Chelating agent
 Through drier
 Anti Skin Agent
 Flow leveling agent

Supplier

Cray Valley
 Cray Valley
 Byk Chemie
 DuPont
 OMYA corp.
 OMG Group, Inc
 Dura Chemicals
 OMG
 Condea Servo LLC
 Byk Chemie

COOK COMPOSITES AND POLYMERS CO.

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