



PRODUCT INFORMATION

CHEMPOL[®] MPS 4460-M

Polymers Suggested Starting Formulation

www.ccponline.com

SEMI-TRANSPARENT INTERIOR WOOD STAIN

2.05 VOC

<u>INGREDIENTS</u>	<u>POUNDS</u>	<u>GALLONS</u>
CHEMPOL [®] MPS 4460	540.46	65.91
Mineral Spirits	181.95	28.25
12% Cobalt ¹	3.17	0.37
Exkin [®] #2 ²	1.08	0.14
XL-Dri [®] ³	3.21	0.39
5% Calcium ⁴	10.83	1.44
12% Zirconium ⁵	9.01	1.11
Blend all ingredients thoroughly. Add transparent iron oxide pigmentation to achieve desired color*.		
Yellow Transparent Iron Oxide Tint ⁶	17.37	1.80
Red Transparent Iron Oxide Tint ⁷	<u>5.73</u>	<u>0.59</u>
	772.81	100.00

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* Black pigment tint compatible with oil-based stains may also be added as desired to modify the tone.

PAINT PROPERTIES

% solids by weight	73.4
% solids by volume	68.5
Viscosity	17 - 23 seconds Zahn #3 cup
VOC, pounds / gallon	2.05
grams / liter	246

Dry Times Dry times vary depending on wood porosity and environmental conditions. Allow to thoroughly dry before applying varnish clear coat, typically 6-24 hours.

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 stain
High organic renewable content
High solids and low VOC
High Crosslink Density
Low Molecular Weight
Contains Transparent Pigmentation
Optimized drier package

Benefits

Favorable application characteristic – long open times
Lower ecological and environmental impacts than other alkyd stains
Lower exposure to solvents with potential health impacts compared to traditional alkyd stains
Adds toughness at wood surface
Excellent penetration into wood pores
Rich natural wood tone appearance
Sufficient curing times to enable timely topcoat application

FORMULATION NOTES

Ingredient	Description	Supplier
¹ Cobalt 12%	Cobalt Ten-Cem	OMG
² Exkin [®] #2	Anti Skin Agent	Condea Servo LLC
³ XL-Dri [®]	Cobalt chelating agent	Dura Chemicals
⁴ 5% Calcium	Calcium Ten-Cem	OMG
⁵ 12% Zirconium	Through drier	OMG
⁶ Yellow Trans Oxide	Tint-AYD [®] AL499	Elementis
⁷ Red Trans Oxide	Tint-AYD [®] AL600	Elementis

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