



# Formulation

## High Performance Bare Metal Primer

### using HALOX 750

		<u>LBS</u>	<u>GALS</u>
<i>GRIND</i>			
Water		94.60	11.34
Butyl Cellosolve	[1]	35.99	4.78
Tamol 681	[2]	10.28	1.14
Troysol LAC	[3]	2.06	0.23
AMP-95	[4]	3.08	0.39
Drewplus L-493	[5]	1.03	0.14
<i>Add the following under good agitation.</i>			
Y.I.O. YO-2087	[6]	51.41	1.53
HALOX 750	[7]	51.41	2.07
Nyral 400	[8]	128.53	5.40
<i>High speed disperse to 5+ NS Hegman grind.</i>			
<i>LETDOWN</i>			
Water		115.17	13.80
Maincote PR-71	[2]	483.29	52.64
Dibutyl Phthalate	[9]	7.20	0.82
Ammonia Hydroxide (28%)		3.08	0.41
<i>Add grind portion under agitation and mix until uniform.</i>			
<i>Then add the following in order listed.</i>			
Ethyl Alcohol, 95%	[9]	18.51	2.74
HALOX FLASH-X 150	[7]	5.14	0.55
<i>Add slowly while mixing at high speed.</i>			
<i>Do not AERATE!</i>			
Acrysol RM-8W	[2]	12.34	1.42
Acrysol RM-1020	[2]	5.14	0.59
<i>Mix well until uniform.</i>			
TOTAL		1,028.27	100.00

### Formula Constants

Density (lb/gal)	10.28
Density (g/L)	1232.28
Weight Pigment (%)	22.50
Volume Pigment (%)	9.00
Weight Solids (%)	47.13
Volume Solids (%)	33.84
PVC (%)	27.29
VOC (lb/gal)	1.61
VOC (g/L)	192.79

### Formula Properties

pH @ R.T.	9.0 - 9.5 pH
KU Viscosity @ 25C	90 - 95
ICI	0.80 - 1.00

*Should not exceed a 20 KU increase after 30 days in the oven @ 55 C*

### Supplier Key

- [1] The Dow Chemical Company
- [2] Rohm and Haas
- [3] Troy Corporation
- [4] ANGUS Chemical Company
- [5] Ashland Chemical Co., Drew Industrial Div.
- [6] Elementis Pigments Inc.
- [7] HALOX
- [8] R.T. Vanderbilt Company, Inc.
- [9] Eastman Chemical Company

*The information contained herein is correct to the best of our knowledge, but is intended only as a source of information. The recommendations or suggestions herein are made without guarantee of representation as to results, and we suggest that you evaluate the recommendations contained in this formulation in your own laboratory prior to use.*

**WATER BASE ACRYLIC LATEX PRIMER  
using HALOX 750**

Salt Spray - 500 hrs - Matte CRS - 2.0 mils (50 microns) - 5% t.f.w.



**HALOX 750**



**Organic Modified Zinc Aluminum  
Molybdenum Phosphate**



**Activated Zinc Phosphate**



**Modified Zinc Phosphate**



**Modified Zinc Orthophosphate  
Silicate Hydrate**