High Solids Zinc Free Water Base Primer using HALOX 430 and HALOX 570

GRIND

<table>
<thead>
<tr>
<th></th>
<th>% Wt</th>
<th>Class</th>
<th>Supplier</th>
</tr>
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<tbody>
<tr>
<td>De-Ionized Water</td>
<td>8.30</td>
<td>Solvent</td>
<td>ANGUS Chemical Company</td>
</tr>
<tr>
<td>AMP-90</td>
<td>0.10</td>
<td>Amine</td>
<td>Elementis Specialties, Inc.</td>
</tr>
<tr>
<td>Disperse AYD W-33</td>
<td>1.21</td>
<td>Dispersant</td>
<td>Cognis Corporation</td>
</tr>
<tr>
<td>Butylglycol</td>
<td>4.55</td>
<td>Coalescent</td>
<td>Huntsman Tioxide</td>
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<tr>
<td>Dehydran 1620</td>
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<tr>
<td>Tioxide TR92</td>
<td>12.65</td>
<td>Pigment</td>
<td>HALOX</td>
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<td>HALOX 430</td>
<td>5.06</td>
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<td>Micro Talc IT Extra</td>
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High speed disperse to particle size of <20 microns.

LETDOWN

Slowly add the resin into the pigment paste with good agitation.

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<td>1.72</td>
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<td>HALOX 570 (30% solution)</td>
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TOTAL 100.00

Formula Properties

- pH @ 25°C: 7.6 – 7.8
- Viscosity Brookfield @ 25°C: 960 mPa.s (6 rpm)
- Stability @ 50°C for 4 weeks: pass

Formula Constants

- Density (g/L): 1296.98
- Weight Pigment (%): 27.83
- Volume Pigment (%): 11.40
- Weight Solids (%): 56.50
- Volume Solids (%): 43.08
- PVC (%): 27.13
- VOC (g/L): 158.07

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.

NCXK87/ HLX 430&570E 5/1/2006
High Solids Zinc-Free Water Base Primer using HALOX SW-111 & HALOX 570

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- Weight Pigment (%): 27.83
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- Volume Solids (%): 42.95
- PVC (%): 26.75
- VOC (g/L): 158.73

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NCXK87/HLXSW111E 5/1/2006

HALOX® 1326 Summer St., Hammond, IN 46320, USA  tel: 219.933.1560, website: www.halox.com
WATER BASE ACRYLIC LATEX PRIMER based on NeoCryl XK-87 using HALOX ZINC-FREE CI’S
Salt Spray - 500 hrs - Matte CRS - (50-63 microns) - % t.f.w.

BLANK CONTROL
Modified Zinc Phosphate @ 5%
Calcium Ion Exchange @ 5%

HALOX SW-111 @ 5%
HALOX 430 @ 5% & HALOX 570 (30% soln) @ 2%