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# VANDERBILT

## Minerals Formula

### Formula 022309

**Exterior Semi-Gloss Alkyd Emulsion Paint**  
**ACTIV-8® HGL<sup>1</sup>** Drier, Stabilizer and Accelerator,  
**VEEGUM® T<sup>1</sup>** Magnesium Aluminum Silicate,  
**VANSIL® W-50<sup>1</sup>** Wollastonite

	<u>Pounds</u>	<u>Gallons</u>	<u>Kilograms</u>	<u>Liters</u>
<b>DISPERSION</b>				
Water	115.0	13.8	13.79	13.79
AMP-95 <sup>6,2</sup>	0.5	0.1	0.06	0.06
Disperbyk® 2010 <sup>3</sup>	9.5	1.1	1.14	1.06
Aerosol® OT-75 <sup>4</sup>	2.5	0.3	0.30	0.28
2.5% VEEGUM T gel <sup>1</sup> Magnesium Aluminum Silicate	41.0	4.9	4.92	4.92
Rhodoline® 643 <sup>5</sup>	2.5	0.3	0.30	0.33
Natrosol® Plus 330 <sup>6</sup>	1.0	0.1	0.12	0.09
Ti-Pure® R 706 <sup>7</sup>	200.0	6.0	24.00	6.00
VANSIL W-40 <sup>1</sup> Wollastonite	100.0	4.1	11.99	4.13
<i>Mix at high speed for 15 minutes. Set aside.</i>				
<b>LET DOWN</b>				
Beckosol® AQ 205 Alkyd Emulsion Resin <sup>8</sup>	510.0	58.1	61.15	58.07
<i>Preblend the next four items and add to resin.</i>				
Propylene glycol	8.6	1.0	1.03	1.00
ACTIV-8 HGL <sup>1</sup> Drier, Stabilizer and Accelerator	0.6	0.1	0.07	0.07
12% Cobalt Cem-All <sup>9</sup>	0.9	0.1	0.11	0.11
12% Zirconium Hex-Cem <sup>9</sup>	3.5	0.4	0.42	0.43
<i>Add dispersion.</i>				
Rhodoline® 643 <sup>5</sup>	2.5	0.3	0.30	0.33
AMP-95 <sup>6,2</sup>	0.5	0.1	0.06	0.06
<i>Preblend the next two items and add.</i>				
Water	72.5	8.7	8.69	8.69
Acrysol® RM 825 <sup>10</sup>	5.0	0.6	0.60	0.57
<i>Mix at slow speed for 10 minutes.</i>				
<b>TOTALS</b>	<b>1076.1</b>	<b>100.1</b>	<b>129.05</b>	<b>99.99</b>
<b>PAINT PROPERTIES</b>				
Density	10.9 lbs/gal		1.30 g/ml	
% Solids by weight	55.0			
% Solids by volume	41.1			
% PVC	25			
Pigment to binder ratio	1.13:1			
Calculated VOC	0.25 lbs/gal		30 g/l	

#### RAW MATERIAL SUPPLIERS

- <sup>1</sup>Vanderbilt Minerals, LLC, Norwalk, CT
- <sup>2</sup>Angus Chemical Company, Buffalo Grove, IL
- <sup>3</sup>BYK USA Inc., Wallingford, CT
- <sup>4</sup>Cytec Industries Inc., West Paterson, NJ
- <sup>5</sup>Rhodia Inc., Cranberry, NJ
- <sup>6</sup>Aqualon Company, Wilmington, DE
- <sup>7</sup>E.I. du Pont de Nemours & Company, Wilmington, DE
- <sup>8</sup>Reichhold Inc., Research Triangle Park, NC
- <sup>9</sup>OM Group Inc., Cleveland, OH
- <sup>10</sup>Dow Chemical Company, Midland, MI

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