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# VANDERBILT

## Minerals Formula

**Formula 040212**  
**Exterior Latex Deep Toned House Paint**  
**DARVAN® CN<sup>1</sup> Dispersant, VANCIDE® MZ-98<sup>1</sup> Fungicide, BILT-PLATES® 156<sup>1</sup> Clay**

	Pounds	Gallons	Kilograms	Liters
<b>DISPERSION</b>				
Water	200.0	24.0	23.86	23.86
<b>DARVAN® CN</b> Dispersant <sup>1</sup>	12.0	1.3	1.43	1.29
Natrosol® Plus 330 <sup>2</sup>	1.0	0.1	0.12	0.09
Ammonium Hydroxide	2.5	0.3	0.30	0.32
Triton® CF-10 <sup>3</sup>	2.0	0.2	0.24	0.22
Drewplus® L 475 <sup>4</sup>	2.0	0.3	0.24	0.26
Proxel® GXL <sup>5</sup>	1.5	0.2	0.18	0.16
<b>VANCIDE® MZ-98</b> Fungicide <sup>1</sup>	20.0	1.4	2.39	1.40
Satintone® W <sup>6</sup>	160.0	7.3	19.09	7.26
Gama-Sperse® 80 <sup>7</sup>	105.0	4.6	12.53	4.62
<b>BILT-PLATES® 156</b> Clay <sup>1</sup>	50.0	2.3	5.97	2.28
Attigel® 50 <sup>6</sup>	5.0	0.3	0.60	0.25
<i>Mix at high speed for 15 minutes. Reduce speed for let down.</i>				
<b>LET DOWN</b>				
Rhoplex Multilobe® 200 <sup>3</sup>	300.0	33.8	35.79	33.57
Texanol® <sup>8</sup>	10.0	1.3	1.19	1.24
Ethylene Glycol	10.0	1.1	1.19	1.07
Drewplus® L 475 <sup>4</sup>	2.0	0.3	0.24	0.26
<i>Premix the next two items and add.</i>				
Water	166.8	20.0	20.70	20.70
Acrysol® RM 825 <sup>3</sup>	10.0	1.2	1.19	1.15
<i>Mix at slow speed for 10 minutes.</i>				
<i>Post add colorant at 12 oz/gal</i>				
<i>Mix at slow speed for 5 minutes</i>				
<b>TOTALS</b>	1049.8	100.0	127.25	100.00

**PAINT PROPERTIES** (excluding colorant)

Density	10.5 lbs/gal	1.27 g/ml
% Solids by weight	48.1	
% Solids by volume	34.5	
PVC	45.8	
Pigment to binder ratio	1.97:1	
Calculated VOC	0.50 lbs/gal	60 g/L

**RAW MATERIAL SUPPLIERS**

- <sup>1</sup>Vanderbilt Minerals, LLC, Norwalk, CT
- <sup>2</sup>Aqualon Company, Wilmington, DE
- <sup>3</sup>Dow Chemical Company, Midland, MI
- <sup>4</sup>Ashland Specialty Chemical Company, Columbus, OH
- <sup>5</sup>Lonza, Basel, Switzerland
- <sup>6</sup>Engelhard Corporation, Iselin, NJ
- <sup>7</sup>Imerys Minerals, LTD, Roswell, GA
- <sup>8</sup>Eastman Chemical, Kingsport, TN

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07/23/2014

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