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# VANDERBILT

## Minerals Formula

**Formula 110211**  
**Exterior House Paint with Good ZnO Stability**  
**DARVAN® 561<sup>1</sup> Dispersing Agent, VANSIL® W-30<sup>1</sup> Wollastonite**

	<u>Pounds</u>	<u>Gallons</u>	<u>Kilograms</u>	<u>Liters</u>
<b>DISPERSION</b>				
2.5% Cellosize® QP 4400 <sup>2</sup>	125.0	15.0	15.01	15.01
<b>DARVAN 561<sup>1</sup></b> Dispersing Agent	8.0	0.9	0.96	0.79
KTPP	1.0	0.0	0.12	0.05
Triton® CF-10 <sup>2</sup>	2.5	0.3	0.30	0.28
Drewplus® L 475 <sup>3</sup>	1.0	0.1	0.12	0.13
Propylene Glycol	34.0	3.9	4.08	3.94
Ethylene Glycol	25.0	2.7	3.00	2.70
Ti-Pure® R 706 <sup>4</sup>	225.0	6.8	27.01	6.75
XX 503R Zinc Oxide <sup>5</sup>	25.0	0.5	3.00	0.54
<b>VANSIL W-30<sup>1</sup></b> Wollastonite	217.5	9.0	26.11	9.00
ATTAGEL™ 50 <sup>6</sup>	5.0	0.3	0.60	0.25

*Mix at high speed for 15 minutes. Reduce speed for let down.*

**LET DOWN**

Rhoplex® Multilobe® 200 <sup>2</sup>	335.0	37.7	40.22	37.73
Drewplus® L 475 <sup>3</sup>	1.0	0.1	0.12	0.13
Texanol <sup>7</sup>	9.0	1.1	1.08	1.13
28% Ammonium Hydroxide	2.0	0.3	0.24	0.26
<i>Preblend the next two items and add.</i>				
2.5% Cellosize® QP 4400 <sup>2</sup>	120.0	14.4	14.41	14.41
Water	57.5	6.9	6.90	6.90

*Mix at slow speed for 10 minutes.*

<b>TOTALS</b>	1193.5	100.0	143.28	100.00
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**PAINT PROPERTIES**

Density	1.43 lbs/gal	1.43 g/l
% Solids by weight	55.0	
% Solids by volume	36.5	
PVC	46.1	
Pigment to binder ratio	2.66:1	
Calculated VOC	1.30 lbs/gal	156 g/l

**RAW MATERIAL SUPPLIERS**

- <sup>1</sup>Vanderbilt Minerals, LLC, Norwalk, CT
- <sup>2</sup>Dow Chemical Company, Midland, MI
- <sup>3</sup>Ashland Specialty Chemical Company, Columbus, OH
- <sup>4</sup>E.I. DuPont de Nemours & Company, Wilmington, DE
- <sup>5</sup>Zinc Corporation of America, Monaca, PA
- <sup>6</sup>BASF Corporation, Florham Park, NJ
- <sup>7</sup>Eastman Chemical, Kingsport, TN

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