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# VANDERBILT

## Minerals Formula

061114

**Alkyd Modified Acrylic Latex Maintenance Primer**  
**ACTIV-8**<sup>®1</sup> Drier, Stabilizer and Accelerator, **DARVAN**<sup>® 7-N</sup><sup>1</sup> Dispersant,  
**VAN GEL**<sup>® ES</sup><sup>1</sup> Magnesium Aluminum Silicate

	Pounds	Gallons	Kilograms	Liters
<b>DISPERSION</b>				
Water	106.0	12.7	12.71	12.71
<b>VAN GEL</b> <sup>® ES</sup> <sup>1</sup> Magnesium Aluminum Silicate	10.0	0.5	1.20	0.46
<i>Mix at high speed for 20 minutes. Reduce speed and add:</i>				
Drewplus <sup>®</sup> L 475 <sup>2</sup>	1.0	0.1	0.12	0.13
28% Ammonium Hydroxide	1.0	0.1	0.12	0.13
<b>DARVAN</b> <sup>® 7-N</sup> <sup>1</sup> Dispersant	13.5	1.4	1.62	1.40
Triton <sup>®</sup> X 405 <sup>3</sup>	1.5	0.2	0.18	0.18
Texanol <sup>®4</sup>	10.0	1.3	1.20	1.25
<i>Pre-blend the driers and alkyd resin and add:</i>				
Beckosol <sup>®</sup> 1271 <sup>5</sup>	57.0	6.8	6.83	6.83
<b>ACTIV-8</b> <sup>®1</sup> Drier, Stabilizer and Accelerator	0.2	0.0	0.02	0.03
12% Zirconium Hex-Cem <sup>®6</sup>	1.7	0.2	0.20	0.21
6% Cobalt Cem-All <sup>®6</sup>	0.3	0.0	0.04	0.04
6% Manganese Nap-All <sup>®6</sup>	0.3	0.0	0.04	0.04
Skino <sup>®</sup> No 2 <sup>6</sup>	0.5	0.1	0.06	0.07
Triton <sup>®</sup> X 100 <sup>3</sup>	4.5	0.5	0.54	0.51
Ethylene Glycol	20.0	2.2	2.40	2.16
15% Sodium Nitrite	6.0	0.7	0.72	0.72
Ti-Pure <sup>®</sup> R-960 <sup>7</sup>	150.0	4.5	17.99	4.50
325 Mesh Mica	25.0	1.1	3.00	1.06
Gama-Sperse <sup>®</sup> 80 <sup>8</sup>	140.0	6.2	16.79	6.19
Busan <sup>®</sup> 11M1 <sup>9</sup>				
<i>Disperse at high shear for 15 minutes. Reduce speed for let down.</i>				
<b>LET DOWN</b>				
Rhoplex <sup>®</sup> MV-23 LO <sup>3</sup>	475.0	54.1	56.95	54.03
Drewplus <sup>®</sup> L 475 <sup>2</sup>	1.0	0.1	0.12	0.13
2.5% Cellosize <sup>®</sup> QP 4400 <sup>3</sup>	30.0	3.6	3.60	3.60
<i>Mix at slow speed for 10 minutes.</i>				
<b>TOTALS</b>	1154.5	100.0	138.44	100.01

### PAINT PROPERTIES

Density	11.5 lbs/gal	1.38 g/cc
% Solids by weight	59	
% Solids by volume	43.9	
PVC	35	
Pigment to binder ratio	1.59:1	
Calculated VOC	0.63 lbs/gal	75 g/L

### RAW MATERIAL SUPPLIERS

- <sup>1</sup> Vanderbilt Minerals, LLC, Norwalk, CT
- <sup>2</sup> Ashland Specialty Chemical Company, Columbus, OH
- <sup>3</sup> Dow Chemical Company, Midland, MI
- <sup>4</sup> Eastman Chemical, Kingsport, TN
- <sup>5</sup> Reichhold Incorporated, Research Triangle Park, NC
- <sup>6</sup> OM Group, Incorporated, Cleveland, OH
- <sup>7</sup> E.I. DuPont de Nemours & Company, Wilmington, DE
- <sup>8</sup> Imerys Minerals, LTD, Roswell, GA
- <sup>9</sup> Buckman Laboratories International, Incorporated, Memphis, TN

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