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VANDERBILT

Minerals Formula

Formula 050614

Water-borne Alkyd Emulsion Red Iron Oxide Primer

VEEGUM® R Magnesium Aluminum Silicate¹, **DARVAN® C-N** Dispersing Agent¹,
VANSIL® CK-20 Wollastonite¹, **ACTIV-8®** Drier Accelerator and Stabilizer¹

	Pounds	Gallons	Kilograms	Liters
DISPERSION				
Water	139.5	16.7	16.73	16.73
AMP-95 ⁹²	2.0	0.3	0.24	0.26
DARVAN® C-N Dispersing Agent ¹	9.3	1.0	1.11	1.01
Surfynol® 104 BC ³	2.0	0.3	0.24	0.27
Drewplus® L 475 ⁴	2.0	0.3	0.24	0.26
Red Iron Oxide	50.0	1.3	6.00	1.25
Moly-White® 212 ⁵	50.0	2.0	6.00	2.00
VANSIL® CK-20 Wollastonite ¹	50.0	2.0	6.00	2.07
Gama-Sperse® 80 ⁶	100.0	4.4	11.99	4.43
VEEGUM® R Magnesium Aluminum Silicate ¹	9.5	0.4	1.13	0.44

Disperse at high speed for 15 minutes. Set aside.

LET DOWN

Preblend the driers in the butanol/xylene then add to the resin.

50/50 Butanol/xylene	19.0	2.7	2.28	2.71
ACTIV-8® Drier Accelerator and Stabilizer ¹	0.6	0.1	0.07	0.08
12% Co Cem-All ⁶⁷	0.9	0.1	0.11	0.12
12% Zr Hex-Cem ⁶⁷	3.9	0.5	0.47	0.48
Skino® No. 2 ⁷	1.0	0.1	0.12	0.13
Beckosol AQ® 210 ⁸	420.0	47.2	50.37	47.21

Mix at slow speed for 5 minutes.

Add DISPERSION.

Drewplus® L 475 ⁴	2.0	0.3	0.24	0.26
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Preblend the next two items and add.

Water	45.0	5.4	6.01	5.40
Acrysol® RM 825 ⁹	5.0	0.6	0.90	0.58
Water	119.5	14.3	7.82	14.33

Mix at slow speed for 10 minutes

TOTALS	1031.2	100.0	123.67	100.00
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PAINT PROPERTIES

Density	10.3 lbs/gal	12.37 g/ml
% Solids by weight	46.7	
% Solids by volume	34.5	
PVC	28	
Pigment to binder ratio	1.09:1	
Calculated VOC	0.52 lbs/gal	62 g/L

RAW MATERIAL SUPPLIERS

- ¹ Vanderbilt Minerals, LLC, Norwalk, CT
- ² Angus Chemical Company, Buffalo Grove, IL
- ³ Air Products and Chemicals, Allentown, PA
- ⁴ Ashland Specialty Chemical Company, Columbus, OH
- ⁵ Moly-White Pigments Group, Cleveland, OH
- ⁶ Imerys Minerals, LTD, Roswell, GA
- ⁷ OM Group, Incorporated, Cleveland, OH
- ⁸ Reichhold Incorporated, Research Triangle Park, NC
- ⁹ Dow Chemical Company, Midland, MI

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