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VANDERBILT

Minerals Formula

Formula 111413

Water-borne Alkyd Emulsion Red Iron Oxide Primer

VAN GEL® SX¹ Magnesium Aluminum Silicate, **DARVAN® CN¹** Dispersing Agent,
VANSIL® W-30¹ Wollastonite, **ACTIV-8®¹** Drier Accelerator and Stabilizer

	Pounds	Gallons	Kilograms	Liters
DISPERSION				
Water	139.5	16.7	18.04	18.04
AMP-95 ⁶²	1.9	0.2	0.24	0.26
DARVAN® CN¹ Dispersing Agent	9.3	1.0	1.20	1.08
Surfynol® 104 BC ³	1.9	0.2	0.24	0.27
Drewplus® L 475 ⁴	1.9	0.2	0.24	0.26
Red Iron Oxide	46.5	1.2	6.01	1.26
Moly-White® 212 ⁵	46.5	1.9	6.01	2.00
VANSIL® W-30¹ Wollastonite	46.5	1.9	6.01	2.07
Gama-Sperse® 80 ⁶	93.0	4.1	12.02	4.44
VAN GEL® SX¹ Magnesium Aluminum Silicate	9.3	0.9	2.40	0.93

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	18.6	2.7	2.40	2.86
ACTIV-8®¹ Drier Accelerator and Stabilizer	0.6	0.1	0.07	0.08
12% Co Cem-All® ⁷	0.9	0.1	0.12	0.13
12% Zr Hex-Cem® ⁷	3.9	0.5	0.51	0.52
Skino® No. 2 ⁷	1.0	0.1	0.12	0.13
Beckosol AQ® 210 ⁸	418.6	47.1	54.11	50.71

Mix at slow speed for 5 minutes.

Add DISPERSION.

Drewplus® L 475 ⁴	1.9	0.2	0.24	0.26
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Preblend the next two items and add.

Water	46.5	5.6	6.01	6.01
Acrysol® RM 825 ⁹	7.0	0.8	0.90	0.87
Water	120.9	14.5	7.82	7.82

Mix at slow speed for 10 minutes.

TOTALS	1016.2	100.0	124.71	100.00
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PAINT PROPERTIES

Density	10.2 lbs/gal	12.47 g/cc
% Solids by weight	46.5	
% Solids by volume	34.7	
PVC	29	
Pigment to binder ratio	1.05:1	
Calculated VOC	0.55 lbs/gal	66 g/L

RAW MATERIAL SUPPLIERS

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

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