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VANDERBILT

Minerals Formula

Formula 081512

Waterborne Alkyd Emulsion Direct-to-Metal Primer

DARVAN® C-N¹ Dispersing Agent, **VANSIL® W-30¹** Wollastonite,
ACTIV-8®¹ Drier Accelerator

	Pounds	Gallons	Kilograms	Liters
DISPERSION				
Water	150.0	18.0	18.03	18.03
AMP-95® ²	2.0	0.3	0.24	0.26
DARVAN® C-N¹	10.0	1.1	1.20	1.08
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	6.01	1.25
Moly-White® MZAP ⁵	50.0	2.0	6.01	2.00
VANSIL® W-30¹	50.0	2.1	6.01	2.07
Gama-Sperse® 80 ⁶	100.0	4.4	12.02	4.43

Disperse at high speed for 15 minutes. Set aside.

LET DOWN

Preblend the drier accelerator and driers then add to the resin.

50/50 n-Butanol/Xylene	20.0	2.9	2.40	2.86
ACTIV-8®¹	0.6	0.1	0.07	0.08
12% Cobalt Cem-All® ⁷	2.5	0.3	0.30	0.33
12% Zirconium Hex-Cem® ⁷	4.2	0.5	0.51	0.52
Beckosol AQ® 210 ⁸	454.5	51.1	54.62	51.19

Mix at slow speed for 5 minutes.

Add DISPERSION and mix at slow speed for 5 minutes.

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

Water	50.0	6.0	6.01	6.01
Acrysol® RM 825 ⁹	5.0	0.6	0.60	0.58
Water	70.8	8.5	8.51	8.51

Mix at slow speed for 10 minutes.

TOTALS	1025.6	100.1	123.26	99.99
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PAINT PROPERTIES

Density	10.2 lbs/gal	1.23 g/ml
% Solids by weight	50.2	
% Solids by volume	37.9	
PVC	26.5	
Pigment to binder ratio	1.00:1	
Calculated VOC	0.58 lbs/gal	70 g/L

RAW MATERIAL SUPPLIERS

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

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Vanderbilt Minerals, LLC, 33 Winfield Street, P.O. Box 5150, Norwalk, CT 06856-5150
Telephone: (800) 562-2476 - Fax: (203) 855-1220 - Web Site: vanderbiltminerals.com

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