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FORMULARY Color Cosmetics No. 907





No. 907rev

Color Cosmetics Formulary

VANATURAL[®] Bentonite Clay **VEEGUM[®]** Magnesium Aluminum Silicate **VANZAN[®]** Xanthan Gum

VANATURAL and **VEEGUM** products are natural water-washed smectite clays that reliably enhance the stability and esthetics of color cosmetics.

VANZAN xanthan gum products are efficient thickeners as well as emulsion and suspension stabilizers. They provide useful synergism with **VANATURAL** and **VEEGUM** clays.

RECOMMENDED GRADES FOR COLOR COSMETICS

Smectite Clays	
VANATURAL	Fast hydrating ECOCERT/COSMOS grade bentonite clay.
VANATURAL MC	Fast hydrating bacteria-controlled bentonite clay.
VANATURAL XGB	Rapidly hydrating ECOCERT/COSMOS bentonite and xanthan gum blend.
VEEGUM Ultra	A unique acidic smectite clay that is especially easy to hydrate.
VEEGUM R	Classic grade for foundations.
Xanthan Gum	
VANZAN NF	Xanthan gum for all personal care applications

USING VANATURAL AND VEEGUM CLAYS

VANATURAL and **VEEGUM** products must be properly dispersed in water to provide their best performance. No other materials should be present in the water, because they can interfere with the proper hydration of the clay and the formation of the colloidal structure. Generally, the degree of clay hydration is directly proportional to the amount of energy used to disperse the product. The degree of hydration therefore increases as mixing time, mixing intensity or water temperature increase.

The following table provides suggested minimum mixing times for the hydration of **VANATURAL** and **VEEGUM** clays. Actual hydration times, in the laboratory or in production, will depend on the particular combination of batch size, mixer shear, and water temperature used. Whichever mixing conditions are used, it is very important that they be carefully controlled to achieve reproducible results in the final formulation.

Minimum Suggested	Normal Hydrating	Quick Hydrating	Ultra Hydrating
Hydration Times	VEEGUM R	VANATURAL	VEEGUM Ultra
		VANATURAL MC	VANATURAL XGB
Propeller Mixer:			
800 rpm, 25°C water	120 Minutes	30 Minutes	15 Minutes
800 rpm, 75°C water	45 Minutes	20 Minutes	10 Minutes
Homogenizer:			
3000 rpm, 25°C water	30 Minutes	20 Minutes	10 Minutes
3000 rpm, 75°C water	15 Minutes	10 Minutes	10 Minutes



FORMULARY

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Cream Makeup No. 638

		VVI.70
	VANATURAL [®] or VANATURAL MC Bentonite Clay	3.20
^	VANZAN [®] NF Xanthan Gum	0.80
A	Water	70.36
	Propanediol (Zemea [®] Propandiol ¹)	5.00
	Titanium Dioxide (and) Cellulose (and) Alumina (C2-5 TiO2 CR-50 ²)	5.00
	Talc (Imperial ™ 1886Ĺ BC³)	4.30
в	Yellow Iron Oxide (SunCRÓMA [®] Yellow Iron Oxide (C33-210) ⁴)	1.00
	Red Iron Oxide (SunCROMA [®] Red Iron Oxide (C33-128) ⁴)	0.26
	Black Iron Oxide (SunCROMA [®] Black Iron Oxide (C33-5000) ⁴)	0.08
	Mica (Sericite GMS-4C ²)	2.00
	Cetearvl Wheat Straw Glvcosides (and) Cetearvl Alcohol (Xvliance™⁵)	5.00
с	Helianthus Annuus (Sunflower) Seed Oil (and) Glycine Soia (Soybean) Germ	3.00
	Extract (and) Zea Mays (Corn) Starch (and) Silica (and) Tocopherol (Vegelatum [®] Sunflower 1102 ⁶)	

D Preservative

q.s.

Procedure: While heating the water to 75°C, slowly add the VANATURAL® or VANATURAL MC and VANZAN[®] NF sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Then, add and mix in the propanediol. Combine the Part B ingredients, then add to Part A and mix until smooth. Maintain the water phase at 75°C. Combine the Part C ingredients (oil phase) and heat to 75°C. Add the oil phase to the water phase with good agitation; mix until uniform. Avoid incorporating air. Cool with mixing; add Part D when the emulsion is <30°C.

RAW MATERIAL SUPPLIERS

¹DuPont Tate & Lyle Bio Products Company, Wilmington, DE

²Kobo Products, Inc., South Plainfield, NJ

³Brenntag Specialties, Inc., South Plainfield, ⁴Sun Chemical Corporation, Parsippany, NJ

⁵Givaudan Active Beauty, New York, NY

⁶Natunola Health, Inc., Winchester, ON, Cana

TRADEMARKS

LLC,	Registered and pending trademarks appearing printed in bold in these materials are
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	http://www.vanderbiltminerals.com/ee_content/Documents/Technical/Trademarks_VM_Web.pdf
NJ	Imperial is a trademark of Imerys Talc America, Inc.
	Xyliance is a trademark of Soliance.
	SunCROMA is a registered trademark of Sun Chemicals Corporation.
ada	Vegelatum is a registered trademark of Natunola Health, Inc.
	Zemea is a registered trademark of DuPont Tate & Lyle Bio Products Company, LLC.

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W/t %

Liquid Foundation No. 602

A	VANATURAL[®] XGB Bentonite Clay (Bentonite (and) Xanthan Gum) Water Propanediol (Zemea [®] propandiol ¹)	4.00 77.97 5.00
в	Iron Oxides (and) Microcrystalline Cellulose (C2-5 Yellow LLXLO ²) Iron Oxide (C.I. 77491) (and) Cellulose (C2-5 Red R-516L ²) Iron Oxide (C.I. 77499) (and) Cellulose (C2-5 Black BL-100 ²) Titanium Dioxide (and) Cellulose (and) Alumina (C2-5 TiO ₂ CR-50 ²) Mica (and) Cellulose (C2-5 Sericite FSE ²)	0.40 0.10 0.03 3.50 4.00
С	Cetearyl Wheat Straw Glycosides (and) Cetearyl Alcohol (Xyliance™ ³)	5.00
D	Preservative	q.s.

Procedure: While heating the water to 75°C, slowly add the **VANATURAL XGB** to the water agitated at maximum available shear. Mix until it is fully hydrated and add the propanediol. Combine the Part B ingredients, then add to Part A and mix until smooth. Maintain the water phase at 75°C. Heat Part C oil phase to 75°C. Add the oil phase to the water phase with good agitation; mix until uniform. Avoid incorporating air. Cool with mixing; add Part D when the emulsion is <30°C.

RAW MATERIAL SUPPLIERS

TRADEMARKS

¹ DuPont Tate & Lyle Bio Products Company, LLC, Wilmington, DE ² Kobo Products, Inc., South Plainfield, NJ ³ Actives International, Allendale, NJ	VANATURAL is a registered trademark of R.T. Vanderbilt Holding Company, Inc. or its respective wholly owned subsidiaries. Xyliance is a trademark of Soliance. Zemea is a registered trademark of DuPont Tate & Lyle Bio Products Company, LLC.
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Liquid Powder Foundation No. 577

	Wt.%
VANATURAL [®] Bentonite Clay	3.00
VANZAN [®] NF Xanthan Gum	0.70
Water	81.27
Pentylene Glycol (Hydrolite [®] -5 ¹)	5.00
Iron Oxides (and) Microcrystalline Cellulose (C2-5 Yellow LLXLO ²)	0.40
Iron Oxide (C.I. 77491) (and) Cellulose (C2-5 Red R-516L ²)	0.10
Iron Oxide (C.I. 77499) (and) Cellulose (C2-5 Black BL-100 ²)	0.03
Titanium Dioxide (and) Cellulose (and) Alumina (C2-5 TiO ₂ CR-50 ²)	3.50
Mica (and) Cellulose (C2-5 Sericite FSE ²)	4.00
PEG-14 Dimethicone (Abil [®] B 8843 ³)	2 00
	2.00
Preservative	q.s.
	 VANATURAL[®] Bentonite Clay VANZAN[®] NF Xanthan Gum Water Pentylene Glycol (Hydrolite[®] -5¹) Iron Oxides (and) Microcrystalline Cellulose (C2-5 Yellow LLXLO²) Iron Oxide (C.I. 77491) (and) Cellulose (C2-5 Red R-516L²) Iron Oxide (C.I. 77499) (and) Cellulose (C2-5 Black BL-100²) Titanium Dioxide (and) Cellulose (and) Alumina (C2-5 TiO₂ CR-50²) Mica (and) Cellulose (C2-5 Sericite FSE²) PEG-14 Dimethicone (Abil[®] B 8843³) Preservative

Procedure: Slowly add the **VANATURAL**[®] and **VANZAN**[®] **NF** sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Add the pentylene glycol, mixing until uniform. Blend Part B and add to A and mix until smooth. Add Part C and Part D in order; mix after each until smooth.

RAW MATERIAL SUPPLIERS	TRADEMARKS
¹ Symrise, Teterboro, NJ	VANATURAL and VANZAN are registered trademarks of R.T. Vanderbilt
² Kobo Products, Inc., South Plainfield, NJ	Holding Company, Inc., and/or its respective wholly owned subsidiaries.
³ Evonik Goldschmidt Chemical Corporation,	Abil is a registered trademark of Goldschmidt GmbH Corporation.
Hopewell, VA	Hydrolite is a registered trademark of Symrise GmbH.
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Water-in-Oil Luxurious Makeup No. 332

		Wt.%
	VEEGUM [®] R Magnesium Aluminum Silicate	1.2
Α	Deionized Water	37.9
	Magnesium Sulfate	0.4
	Talc	5.5
D	Kaolin	1.5
Б	Titanium Dioxide	5.0
	Iron Oxides	3.0
	Mineral Oil	15.0
	Hydrogenated Polyisobutylene (Parleam ^{®1})	8.0
C	Mineral Oil (and) Lanolin Alcohol (Vilvanolin [™] L101 ²)	8.0
C	Isopropyl Lanolate (and) Lecithin (Lanapene ^{™3})	7.0
	Sorbitol, 70%	5.0
	Oleamide DEA (Schercomid [™] ODA ²)	2.5

D Preservative

Procedure: Slowly add the **VEEGUM**[®] **R** to the water agitated at maximum available shear. Mix until fully hydrated. Add the Magnesium Sulfate and mix until smooth. Grind Part B and add to Part A, mixing until uniform. Add Parts A & B to Part C. Mix until uniform and smooth. Add Part D and mix until uniform.

RAW MATERIAL SUPPLIERS ¹Rossow Cosmetiques – USA, Matawan, NJ ²Lubrizol Advanced Materials, Inc., Cleveland, OH ³Lanaetex Products Inc., Elizabeth, NJ

TRADEMARKS

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q.s.

Nonionic Liquid Makeup No. 349

		Wt.%
	VEEGUM [®] R Magnesium Aluminum Silicate	0.75
	VANZAN [®] NF Xanthan Gum	0.15
Α	Deionized Water	67.10
	Glycerin	4.00
	Citric Acid	0.30
	Talc	5.00
В	Titanium Dioxide	5.00
	Iron Oxides	3.70
	Mineral Oil (and) Lanolin Alcohol (Vilvanolin [™] L101 ¹)	5.00
	Myristyl Myristate (Crodamol [™] MM ²)	2.50
С	Hydrogenated Polyisobutylene (Parleam ^{®3})	2.00
	Oleyl Alcohol	2.00
	Cetearyl Alcohol (and) Ceteareth-20 (Cosmowax [™] D ²)	2.00
	Polysorbate 85 (Tween 85 ⁴)	0.50
D	Preservative	q.s.

q.s.

Procedure: While heating the water to 60-65°C, slowly add the VEEGUM® R and VANZAN® NF sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Add the glycerin and citric acid. Mix Part B (grind if necessary) until homogenous and add to Part A. Maintain the water phase at 60-65°C. Blend the Part C oil phase ingredients and heat to 60-65°C. Add the Part C oil phase to the water phase with good agitation; mix until uniform. Cool with mixing; add Part D when the emulsion is <40°C.

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RAW MATERIAL SUPPLIERS ¹ Lubrizol Advanced Materials, Inc., Cleveland, OH ² Croda Inc., Edison, NJ ³ Rossow Cosmetiques – USA, Matawan, NJ ⁴ Uniqema, New Castle, DE	 TRADEMARKS VEEGUM and VANZAN are registered trademark of R.T. Vanderbilt Holding Company, Inc., and/or its respective wholly owned subsidiaries. Cosmowax and Crodamol are trademarks of Croda, Inc. Parleam is a registered trademark of Etablissements B. Rossow et Cie. Tween is a registered trademark of Uniqema Americas LLC. Vilvanolin is a registered trademark of Lubrizol Advanced Materials, Inc.
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Cream Matte Makeup No. 154

A	VEEGUM[®] R Magnesium Aluminum Silicate Cellulos Gum (Aqualon [®] CMC 7Lf ¹) Water	2.60 0.40 42.70
в	Propylene Glycol Deionized Water	5.00 12.30
С	Talc Kaolin Clay Titanium Dioxide Iron Oxides	18.50 1.30 3.70 1.50
D	Isopropyl Myristate Sorbitan Laurate (Arlacel [®] 20 ²) Polysorbate 20 (Tween [®] 20 ²) Stearyl Alcohol Mineral Oil (and) Lanolin Alcohol (Vilvanolin [™] L101 ³)	5.00 0.75 2.25 2.00 2.00
Е	Preservative	q.s.

E Preservative

Procedure: While heating the water to 65-70°C, slowly add the VEEGUM® R and CMC sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Add Part B with mixing. Mix Part C (grind if necessary) until homogenous and add to Part A+B. Maintain the water phase at 65-70°C. Blend the Part D oil phase ingredients and heat to 65-70°C. Add the Part D oil phase to the water phase with good agitation; mix until uniform. Cool with mixing; add Part E when the emulsion is <40°C.

 ¹Ashland, Inc., Covington, KY ²Uniqema, New Castle, DE ³Lubrizol Advanced Materials, Inc., Cleveland, OH ³Lubrizol Advanced Materials, Inc., Cleveland, OH 	RAW MATERIAL SUPPLIERS ¹ Ashland, Inc., Covington, KY ² Uniqema, New Castle, DE ³ Lubrizol Advanced Materials, Inc., Cleveland, OH	 TRADEMARKS VEEGUM is a registered trademark of R.T. Vanderbilt Holding Company, Inc., or its respective wholly owned subsidiaries. Aqualon is a registered trademark of Hercules Inc. Arlacel and Tween are registered trademarks of Uniqema Americas LLC. Vilvanolin is a trademark of Lubrizol Advanced Materials, Inc.
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Silky Smooth Emollient Liquid Makeup No. 460

A	VEEGUM [®] HV Magnesium Aluminum Silicate Cellulose Gum (Aqualon [®] CMC 7M8SF ¹) Deionized Water Glycereth-26 (Liponic [™] EG-1 ²) Triethanolamine, 99%	0.80 0.18 53.49 10.50 0.75
в	Iron Oxides Talc Titanium Dioxide	1.29 1.00 3.03
С	Isopropyl Isostearate Mineral Oil (and) Lanolin Alcohol (Vilvanolin [™] L-101 ³) Isopropyl Palmitate Isopropyl Myristate Hydrogenated Soy Glyceride Stearic Acid XXX Dioctyl Adipate (and) Octyl Stearate (and) Octyl Palmitate (Wickenol [™] 161 ⁴) Octyl Stearate (and) Octyl Palmitate (and) Dioctyl Adipate (Wickenol [™] 163 ⁴) Cocoyl Sarcosine Lithium Stearate	9.06 6.50 4.00 2.50 2.10 1.60 1.10 1.00 1.00 0.10
D	Preservative	q.s.

D | Preservative

Procedure: While heating the water to 70-75°C, slowly add the VEEGUM[®] HV and cellulose gum sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Add the remaining Part A ingredients. Mix the Part B ingredients thoroughly into Part A until uniform. Maintain the temperature at 70-75°C. Heat the Part C oil phase to 70-75°C. Add the oil phase to the water phase with good agitation; mix until uniform. Cool with mixing; add Part D when the emulsion is <40°C.

RAW MATERIAL SUPPLIERS	TRADEMARKS
¹ Asland Aqualon Functional Ingredients,	VEEGUM is a registered trademark of R.T. Vanderbilt Holding Company, Inc., or its respective wholly owned subsidiaries.
Wilmington, DE	Aqualon is a registered trademark of Hercules Incorporated.
² Lipo Chemicals, Paterson , NJ	Liponic is a registered trademark of Lipo Chemicals, Inc.
³ Lubrizol Advanced Materials, Inc., Cleveland, OH	Vilvanolin is a trademark of Lubrizol Advanced Materials, Inc.
⁴ Alzo International Inc., Sayreville, NJ	Wickenol is a trademark of Alzo International Inc.

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Leg Makeup No. 623

		Wt.%
	VEEGUM [®] Ultra Magnesium Aluminum Silicate	2.00
Α	VANZAN [®] NF Xanthan Gum	0.50
	Water	71.26
	Propanediol (Zemea [®] Propanediol')	5.00
	Yellow Iron Oxide (SunCROMA [®] Yellow Iron Oxide (C33-210) ²)	1.00
	Red Iron Oxide (SunCROMA Red Iron Oxide (C33-128) ²)	0.26
В	Black Iron Oxide (SunCROMA Black Iron Oxide (C33-5000) ²)	0.08
	Talc (Imperial [™] 1886L BC³)	4.30
	Titanium Dioxide (and) Cellulose (and) Alumina (C2-5 TiO2 CR-50⁴)	5.00
	Isocetyl Alcohol (Jeecol [®] ICA ⁵)	3.00
c	Ethyl Hexyl Methoxycinnamate (Escalol [®] 557 ⁶)	3.00
C	Mineral Oil (and) Lanolin Alcohol (Vilvanolin [™] L101 ⁷)	2.00
	DEA-Oleth-3 Phosphate (Crodafos [™] O3D-LQ-MH [®])	2.20
D	Polyvinypyrrolidone (PVP K-90 ⁶)	0.40
Е	Preservative	q.s.
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Procedure: Slowly add the **VEEGUM**[®] *Ultra* and **VANZAN**[®] **NF** sequentially or as a dry blend to the water, agitated at maximum available shear. Mix until fully hydrated. Please review our <u>Preparations of Dispersions trifold</u>. Then add the propanediol. Mix Part B and grind if necessary to break apart agglomerates until homogenous. Add Part B to Part A with mixing. Mix until uniform. Blend the Part C, oil phase ingredients and continue mixing until transfer. Add the Part C, oil phase to the water phase with good agitation; mix until uniform. Add Part D and mix until uniform. Switch to low shear mixing and cool while mixing to ~30°C. Add Part E and mix until uniform.

TRADEMARKS **RAW MATERIAL SUPPLIERS** Registered and pending trademarks appearing printed in bold in these materials are ¹DuPont Tate & Lyle Bio Products Company, LLC, those of Vanderbilt Minerals, LLC. For a complete listing, please visit Willmington, DE http://www.vanderbiltminerals.com/ee_content/Documents/Technical/Trademarks_VM_Web.pdf 2Sun Chemicals Corporation, Parsippany, NJ Crodafos is a trademark of Croda, Inc. 3 Brenntag Specialties, Inc., South Plainfield, NJ Escalol is a registered trademark of ISP Investments, Inc. 4Kobo Products, Inc., South Plainfield, NJ Imperial is a trademark of Imerys Talc America, Inc. 5Jeen, Fairfield, NJ Jeecol is a registered trademark of Jeen International Corporation. 6Ashland Specialty Ingredients, Wilmington, DE SunCROMA is a registered trademark of Sun Chemicals Corporation. 7Lubrizol Advanced Materials, Inc., Cleveland, OH Vilvanolin is a trademark of Lubrizol Advanced Materials, Inc. 8Croda Inc., Edison, NJ Zemea is a registered trademark of DuPont Tate & Lyle Bio Products Company, LLC. Rev02/10/2016

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Water-Resistant Sport Tint No. 453

		WWL./0
	VEEGUM [®] Ultra Magnesium Aluminum Silicate	1.60
Α	VANZAN [®] NF Xanthan Gum	0.40
	Deionized Water	70.40
	Propylene Glycol	5.00
	Iron Oxides	0.67
в	Manganese Violet	0.10
	Talc	4.27
	Titanium Dioxide	6.96
	Isocetyl Alcohol	3.00
С	Octyl Methoxycinnamate	3.00
	Mineral Oil (and) Lanolin Alcohol (Vilvanolin [™] L101 ¹)	2.00
	DEA-Oleth-3 Phosphate (Crodafos [™] N-3 Neutral ²)	2.20
	Polyvinylpyrrolidone (PVP K-30 ³)	0.40
D	Preservative	0.S .

Procedure: Slowly add the **VEEGUM**[®] *Ultra* and **VANZAN**[®] **NF** sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated and then add the propylene glycol. Add Part B with mixing. Mix Part B (grind if necessary) until homogenous and add to Part A. Mix until uniform. Blend the Part C oil phase ingredients. Add the Part C oil phase to the water phase with good agitation; mix until uniform. Add Part D and mix until uniform.

RAW MATERIAL SUPPLIERS

¹Lubrizol Advanced Materials, Inc., Cleveland, OH ²Croda Inc., Edison, NJ ³International Specialty Products, Wayne, NJ

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Eyeliner No. 107

		VVL./0
Α	VEEGUM [®] R Magnesium Aluminum Silicate Deionized Water	2.5 75.5
В	Polyvinylpyrrolidone (PVP K-30 ¹) Deionized Water	2.0 10.0
С	Iron Oxides	10.0
D	Preservative	q.s.

Procedure: Slowly add **VEEGUM**[®] to the water while agitating at maximum available shear. Continue mixing until smooth. Dissolve the PVP in water using heat as necessary. Add Part B to Part A and mix until uniform. Add Part C and mix until smooth and uniform. Add Part D and mix until uniform.

RAW MATERIAL SUPPLIERS ¹International Specialty Products, Wayne, NJ

TRADEMARKS

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Water-in-Oil Mascara No. 376

		VVL:/U
	VEEGUM [®] R Magnesium Aluminum Silicate	1.50
	Deionized Water	31.28
Α	Polyvinylpyrrolidone (PVP K-30 ¹)	0.22
	Hydrolyzed Collagen (Crotein [™] A ²)	1.00
	Propylene Glycol	5.00
	Petrolatum	3.00
	Petroleum Distillate (Odorless Mineral Spirits)	32.00
	Carnauba Wax	5.00
	Synthetic Beeswax	5.00
Б	Candelilla Wax	3.00
Б	Paraffin	2.50
	Oleamide DEA (Schercomid [™] ODA ³)	5.00
C	Black Iron Oxide (C-33-134 Cosmetic Black ⁴)	5 50
Ū		0.00

D Preservative

Procedure: While heating the water to 75°C, slowly add the **VEEGUM**[®] **R** to the water agitated at maximum available shear. Mix until fully hydrated. Add the remaining Part A ingredients. Maintain the temperature at 75°C. Heat the Part B oil phase to 75°C. Add the oil phase to the water phase with good agitation; mix until uniform. Add Part C slowly, mixing until uniform. Cool with mixing; add Part D when the emulsion is <40°C.

RAW MATERIAL SUPPLIERS

TRADEMARKS

Rev04/25/2013

q.s.



Light Coverage Foundation No. 644

		Wt.%
	VEEGUM [®] R Magnesium Aluminum Silicate	1.20
Α	Water	59.55
	Cellulose Gum (CMC 7LF ¹)	0.60
	Butylene Glycol	6.00
В	Triethanolamine, 99%	2.00
	Methylparaben ²	0.30
	Diazolidinyl Urea (Germall [®] II ¹)	0.20
	Titanium Dioxide (Suncroma [®] Titanium Dioxide C47-051 ³)	5.62
	Suncroma Brown Iron Oxide C33-115 ³	1.00
С	Suncroma Red Iron Oxide C33-128 ³	0.35
	Suncroma Black Iron Oxide C33-5000 ³	0.03
	Talc (Suprafino [®] H USP BC 3460H ⁴)	8.00
	Glyceryl Stearate (Protachem [™] GMS-450²)	1.00
	Isostearic Acid ⁵	2.00
D	Stearic Acid XXX (Triple Pressed Stearic Acid FGK Flakes ⁶)	2.00
	Isopropyl Lanolate ⁷	5.00
	Propylene Glycol Dicaprylate/ Dicaprate (Liponate [®] PC ⁸)	5.00
	Propylparaben ²	0.15

Note: The iron oxide blend listed above is a suggested starting point.

(Formula Courtesy of Sun Chemical Corporation)

Procedure: Dry blend the **VEEGUM**[®] **R** and Cellulose Gum and add them to the water while mixing at maximum available shear. Mix until fully hydrated. Add the Part B ingredients in the order shown, and mix well after each. Add the Part C ingredients and mix until thoroughly dispersed. Begin heating to 75°C. Heat the Part D ingredients to 75°C. Add Part D to Parts A+B+C with good agitation; mix until uniform. Continue mixing slowly while cooling to room temperature.

RAW MATERIAL SUPPLIERS

¹Ashland Specialty Ingredients, Wilmington, DE
²Protameen Chemicals, Inc., Totowa, NJ
³Sun Chemical Corporation, Parsippany, NJ
⁴Brenntag Specialties, Inc., South Plainfield, NJ
⁵Universal Preserv-A-Chem, Somerset, NJ
⁶Acme Hardesty Co., Blue Bell, PA
⁷Zhejiang Garden Biochemical High-Tech Co., Ltd, Zhejiang Provence, China
⁸Vantage Specialty Ingredients, Warren, NJ

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Rev03/22/18



33 WINFIELD STREET NORWALK, CT 06856 800.562.2476 MINERALSALES@VANDERBILTMINERALS.COM WWW.VANDERBILTMINERALS.COM



