



Geonature[®]

BIODEGRADABLE GLITTER

biodegradable glitter for cosmetics



Biodegradable brilliant glitter particles

Geonature® C biodegradable glitter are environmental friendly glitter particles for cosmetic products. The product line is based on a microcrystalline cellulose film which is cut into small particles. Glitter offers high brilliance and a fabulous reflection. The quality and versatility of Geonature® C particles allows them to be used in a variety of products.

The Geonature® C product line is available in 9 colours. This eco-friendly glitter is available in 100 micron (004 inch) and 200 micron (008 inch). Geonature® C glitter is cut from a 35 micron brilliant metallized cellulose foil.

Geonature® C biodegradable glitter is specifically designed to migrate quickly and safely in natural freshwater environments. The product line complies to the following standards: ISO 14855, 14851, 17088, EN 134323. Test results show > 90% degradation into CO₂ after 106 days.

Global cosmetic regulations are complex but thanks to our range of colours there are many possibilities to let your cosmetic products sparkle with these innovative environmental friendly particles.

Product benefits

- Environmental friendly biodegradable particles
- Polyester free material
- Traditional glitter effect
- In compliance with cosmetic regulations

Applications

We recommend to use this productline of the following applications:



Lip area



Eye area



Nail

The effect

The colour and glitter of our Geonature® products is obtained by reflection of light through a transparent coating, which can be clear or coloured.



Transparent coating (coloured or clear)
Reflecting aluminium layer
Cellulose core

A microcrystalline cellulose film is the base for Geonature®. After an aluminum metallization step, the film is coated with a transparent coating (clear or coloured). Precision cutting of the film yields our different glitter sizes and sparkling effects.



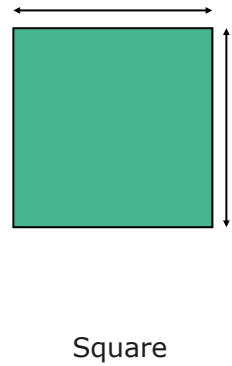
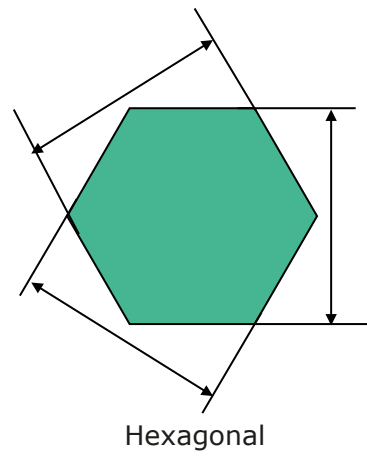
Art. nr.	Product name	Particle size	Effect
2150995	Geonature C Bright Silver 004 x 004 x 001	100 micron	Fine silver glitter particles
2151000	Geonature C Bright Silver 008 HEX x 001	200 micron	Silver glitter particles
2151020	Geonature C Malibu Gold 004 x 004 x 001	100 micron	Fine gold glitter particles
2151025	Geonature C Malibu Gold 008 HEX x 001	200 micron	Gold glitter particles
2151045	Geonature C Sand 004 x 004 x 001	100 micron	Fine sand glitter particles
2151050	Geonature C Sand 008 HEX x 001	200 micron	Sand glitter particles
2151070	Geonature C Fuchsia 004 x 004 x 001	100 micron	Fine fuchsia glitter particles
2151075	Geonature C Fuchsia 008 HEX x 001	200 micron	Fuchsia glitter particles
2151095	Geonature C Jade 004 x 004 x 001	100 micron	Fine green glitter particles
2151100	Geonature C Jade 008 HEX x 001	200 micron	Green glitter particles
2151120	Geonature C Red 004 x 004 x 001	100 micron	Fine red glitter particles
2151125	Geonature C Red 008 HEX x 001	200 micron	Red glitter particles
2151145	Geonature C Lilac 004 x 004 x 001	100 micron	Fine lilac glitter particles
2151150	Geonature C Lilac 008 HEX x 001	200 micron	Lilac glitter particles
2151170	Geonature C Blue 004 x 004 x 001	100 micron	Fine blue glitter particles
2151175	Geonature C Blue 008 HEX x 001	200 micron	Blue glitter particles
2151995	Geonature C Holo Silver 004 x 004 x 001	100 micron	Fine holographic silver glitter particles
2152000	Geonature C Holo Silver 008 HEX x 001	200 micron	Holographic silver glitter particles



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Particle sizes available hexagonal / square	
inch	micron
004	100
008	200



- * Other particle sizes are available upon request.
- * Particle sizes mentioned in the product names are indicative. More detailed information about exact particle sizes of glitter is available in the Product Properties & Declaration file.



General formulation do's and don'ts

Not suitable for water based formulations

Geonature® C biodegradable glitter is not suitable for water based formulations. The particles can withstand short-term water contact.

UV stability

Geonature® C biodegradable glitter which contain cosmetic colourants can be sensitive to UV light.

Solvent resistance

Geonature® C biodegradable glitter that contain cosmetic colourants can be sensitive to solvents.

Temperature resistance

Geonature® C biodegradable glitter has a temperature resistance of 135°C.

Storage

Opened bags should be stored under dry conditions to avoid the influence of moisture.

Finished product	Level of use (recommendation)
Eye shadow	15 - 20 %
Loose powder	up to 100 %
Lipstick	12 - 20 %
Lip balm	3 - 5 %
Lip gloss	3 - 5 %
Lip lacquer	10 - 15 %
Nail Enamel	5 - 10 %



Formulation guideline | Lip gloss

Product: Lip gloss
 Code: GL-210301
 Special effect pigment: Geonature C Bright Silver 008 HEX x 001

Product name	INCI name	% WT.	Supplier
Phase A			
Versagel ME 750	Hydrogenated Polyisobutene Ethylene Propylene Styrene Copolymer Butylene Ethylene Styrene Copolymer	74.90	Calumet Penreco
Jojoba Oil	Simmondsia Chinensis (Jojoba) Seed Oil	2.20	Sigma Oil Seeds
Silcare Silicone 31M50	Caprylyl Trimethicone	7.80	Clariant
Silcare Silicone 41M65	Stearyl Dimethicone	3.60	Clariant
Nexbase 2002	Hydrogenated Polydecene	4.50	Neste Oil
Crodamol IPM	Isopropyl Myristate	5.00	Croda
Phase B			
Geonature C Bright Silver 008 HEX x 001	Cellulose Glycerine Water Polyurethane-11 Acrylates copolymer CI 77000	2.00	Geotech International B.V.

Procedure

1. Combine all ingredients from phase A and heat to 85°C;
2. Add phase B to phase A and mix until homogeneous;
3. Pour into lip gloss container.



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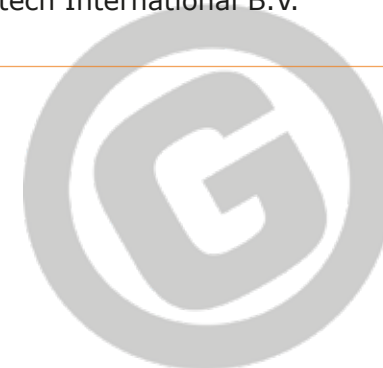
Formulation guideline | Liquid-Gel Eyeshadow

Product: Liquid-Gel Eyeshadow
 Code: GL-210302
 Special effect pigment: Geonature C Jade 008 HEX x 001 | Sunrise 970 | Geopearl C Black | Geopearl C Crystal Amber | Geopearl C Crystal Titanium

Product name	INCI name	% WT.	Supplier
Phase A			
Enhans PC-38	Polyethylene Polycyclopentadiene Stearoxy Dimethicone	11.00	Koster Keunen
Kester Wax K-82P	C18-38 Hydroxystearoyl Stearate	5.00	Koster Keunen
Kester Wax K-82H	C20-40 Alkyl Stearate	2.00	Koster Keunen
Octyldodecanol	Octyldodecanol	15.00	Koster Keunen
Phase B			
Sunrise 970	Mica	4.00	Geotech International B.V.
Geopearl C Black	Mica CI 77499	5.00	Geotech International B.V.
Geopearl C Crystal Amber	Synthetic Fluorophlogopite CI 77491	3.00	Geotech International B.V.
Geopearl C Crystal Titanium	Synthetic Fluorophlogopite Titanium Dioxide	5.00	Geotech International B.V.
Phase C			
Isononyl Isononanoate	Isononyl Isononanoate	7.00	
Belsil PDM20	Trimethylsiloxyphenyl Dimethicone	5.00	Wacker
Phase D			
Belsil TMS 803	Trimethylsiloxy silicate	5.00	Wacker
Isododecane	Isododecane	23.00	
Geonature C Jade 008 HEX x 001	Cellulose Glycerine Water Polyurethane-11 Acrylates copolymer CI 77000 CI 19140 CI 77510	10.00	Geotech International B.V.

Procedure

1. Combine all ingredients from phase A and heat to 85°C;
2. Pre-mix phase B and add to phase A, mix until homogeneous;
3. Pre-mix phase C and add to phase AB, mix until homogeneous;
4. Pre-mix phase D and add to phase ABC, mix until homogeneous;
5. Cool and fill into container.



Formulation guideline | Liquid-Gel Eyeshadow

Product: Liquid-Gel Eyeshadow
 Code: GL-221121
 Special effect pigment: Geonature C Fuchsia 008 HEX x 001 | Sunrise 970

Product name	INCI name	% WT.	Supplier
Phase A			
Enhans PC-38	Polyethylene Polycyclopentadiene Stearoxy Dimethicone	11.00	Koster Keunen
Kester Wax K-82P	C18-38 Hydroxystearoyl Stearate	5.00	Koster Keunen
Kester Wax K-82H	C20-40 Alkyl Stearate	2.00	Koster Keunen
Octyldodecanol	Octyldodecanol	15.00	Koster Keunen
Phase B			
Sunrise 970	Mica	4.00	Geotech International B.V.
Phase C			
Isononyl Isononanoate	Isononyl Isononanoate	7.00	
Belsil PDM20	Trimethylsiloxyphenyl Dimethicone	5.00	Wacker
Phase D			
Belsil TMS 803	Trimethylsiloxy silicate	5.00	Wacker
Isododecane	Isododecane	23.00	
Geonature C Fuchsia 008 HEX x 001	Cellulose Glycerine Water Polyurethane-11 Acrylates copolymer CI 77000 CI 15850	23.00	Geotech International B.V.

Procedure

1. Combine all ingredients from phase A and heat to 85°C;
2. Pre-mix phase B and add to phase A, mix until homogeneous;
3. Pre-mix phase C and add to phase AB, mix until homogeneous;
4. Pre-mix phase D and add to phase ABC, mix until homogeneous;
5. Cool and fill into container.



Formulation guideline | Lipstick




Product: Lipstick
 Code: GL-221107
 Special effect pigment: Geonature C Malibu Gold 004 HEX x 001

Product name	INCI name	% WT.	Supplier
Phase A			
White Beeswax	Beeswax	8.75	Koster Keunen
Paracera C44	Carnauba Wax	5.25	Paramelt
Lanolin	Adeps Lanae	3.50	Henry Lamotte
Crodamol IPM	Isopropyl Myristate	5.60	Croda
Drakeol	Mineral Oil	2.10	Calumet Penreco
Castor Oil	Castor Oil	59.80	
Phase B			
Geonature C Malibu Gold 004 x 004 x 001	Cellulose Glycerine Water Polyurethane-11 Acrylates copolymer CI 77000 CI 19140	3.00	Geotech International B.V.
Geoparl C Hematite	Mica Iron Oxides Titanium Dioxide	3.00	Geotech International B.V.
Geoparl C Silk Bronze	Mica Iron Oxides	3.00	Geotech International B.V.
Geoparl C Silk Copper	Mica Iron Oxides	3.00	Geotech International B.V.
Phase C			
Colororant blend	Castor Oil CI 77491 CI 77499 CI 77492	3.00	
Fragrance		q.s	
Preservative		q.s	
Antioxidant		q.s	

Procedure

1. Add Phase A in a vessel and heat until $85^{\circ} \pm 3^{\circ}\text{C}$
2. Add Phase B to Phase A and mix until homogeneous and cool to $75^{\circ} \pm 5^{\circ}\text{C}$
3. Add Phase C to Phase A+B and until mix homogeneous
4. Cool to $40^{\circ} \pm 5^{\circ}\text{C}$ and pour into mould and place mould into the fridge for 30 minutes
5. Remove the lipstick from the mould and place them into the containers



Product name				Cellulose	Glycerine	Water	Polyurethane-11	Acrylates copolymer	Aluminium (CI 77000)	FD&C Yellow 5 (CI 19140)	D&C Red 7 (CI 15850)	Ferric Ammonium Ferrocyanide (CI 77510)	D&C Red 34 (CI 15880)	D&C Black 2 (CI 77266)
Geonature C Bright Silver	⊙	●	●	X	X	X	X	X	X					
Geonature C Malibu Gold	⊙	●	●	X	X	X	X	X	X	X				
Geonature C Sand	⊙	⊙	●	X	X	X	X	X	X	X	X			
Geonature C Fuchsia	⊙	⊙	●	X	X	X	X	X	X			X		
Geonature C Jade	⊙	●	●	X	X	X	X	X	X	X			X	
Geonature C Red	⊙	⊙	●	X	X	X	X	X	X	X	X		X	
Geonature C Lilac	⊙	⊙	●	X	X	X	X	X	X			X	X	
Geonature C Blue	⊙	●	●	X	X	X	X	X	X			X		X
Geonature C Holo Silver	⊙	●	●	X	X	X	X	X	X					

- Global approval
- ⊙ European and Japanese approval



Available packaging

Nett weight	Gross weight	Package size L x W x H
1 kg	2 kg	18 x 18 x 21 cm
5 kg	6 kg	35 x 18 x 21 cm

Packed in a recyclable paper bag in a cardboard box.

Shelf life

3 years original packaging stored in a closed box under dry conditions.

Samples

Approx. 25 grams samples are available free of charge.

Product data

Product data sheets and additional technical product information are available online. To get access please send an email to marketing@geotech.nl and ask for an account.



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About us

Geotech International B.V., based in Haarlem, The Netherlands, is a dynamic company focusing on the development, production and distribution of special effect pigments. The owners family has a background in the industry with over 40 years of experience. Since 1999 the company is managed by the third generation.

GEOTECH's special effect pigments are being used globally in the cosmetics, plastics, coatings & paints, printing and arts & crafts industry.

Disclaimer

All information and samples provided by GEOTECH are given in good faith and without warranty. Our advice does not release you from the obligation to verify the information provided and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and therefore entirely your own responsibility.



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REV5 01.07.2022

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