



Geospectra[®]
HOLOGRAPHIC GLITTER

**premium brilliant holographic particles
for cosmetics**



Premium holographic polyester glitter for cosmetics

Geospectra® C holographic glitter is among the finest glitter on the market. The base film, polyester, is embossed prior to metallizing, providing an unique multi-colour appearance.

From the composition point of view Geospectra® C glitter is similar to Geoshine® C polyester glitter. Geospectra® C Silver provides a holographic effect without the presence of any colour pigment. Geospectra® C shows a large scale of different colours by different reflections of the light.

Geospectra® C glitter is used in a wide variety of cosmetic products such as lip glosses and nail polish.

The Geospectra® C range is available in 7 colours. Each colour is available in particle sizes from 100 µm (0.004 inch) up to 3 mm (0.125 inch). Geospectra® C products are light fast, water and solvent resistant, non-toxic and heat stable up to a temperature of 180 degrees Celsius.

The range is in compliance with cosmetic regulations in Europe, the United States and Japan.

Product benefits

- Suitable for water and solvent based formulations
- Available in many different particle sizes
- Globally approved for cosmetic applications
- Adds new dimensions to colour cosmetics and personal care products

Applications

We recommend to use this product line for the following applications:



Lip area



Eye area



Nail



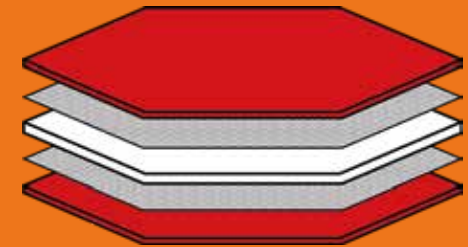
External



Rinse off

The effect

The colour and holographic glitter effect of our Geospectra products is obtained by reflection and refraction of light through a transparent coating, which can be clear or coloured. White incedent light separates on an embossed surface due to the refraction differences of the various wavelengths.



A thin PET film is metallized on two sides and forms the base for Geospectra. Following the metallization an embossing step is made leaving a very fine grating on the aluminized surface. The final step is coating of the film with a transparent (clear or coloured) coating. Through precision cutting of the film, the available different glitter sizes and sparkling effects are obtained.



Geospectra® C holographic glitter

The Geospectra® C glitter is used in a wide variety of cosmetic products such as lip glosses and nail polish and is available in 7 colours.

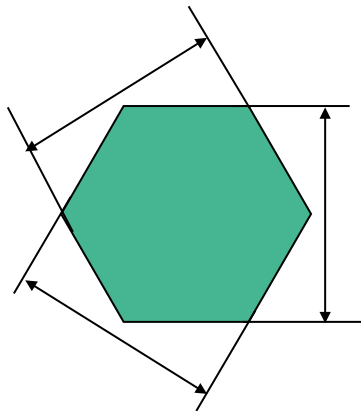
Product name	Effect
Geospectra C Silver	Holographic silver glitter
Geospectra C Malibu Gold	Holographic green gold glitter
Geospectra C Pink	Holographic pink glitter
Geospectra C Lavender	Holographic lavender glitter
Geospectra C Purple	Holographic purple glitter
Geospectra C Red	Holographic red glitter
Geospectra C Black	Holographic black glitter



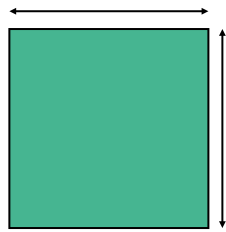
Particle sizes available hexagonal / square	
inch	micron
004	100
006	150
008	200
015	400
025	600
040	1000
062	1600
094	2400
125	3100

Particle sizes available rectangular	
inch	micron
062 x 0125	1600 x 310
125 x 0125	3100 x 310

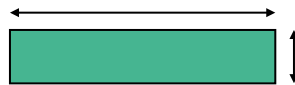
Particle sizes available random	
inch	micron
035	see footnote



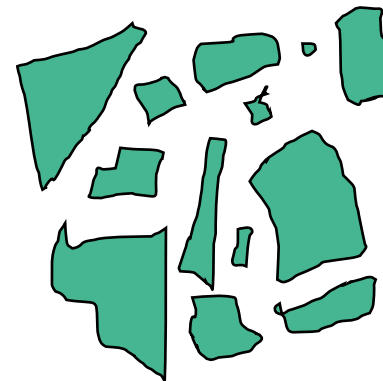
Hexagonal



Square



Rectangular



Random

* 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.

* The 035 designation refers to the process used to achieve the final product rather than it designating particle size. There can be a small variation in the particle size distribution from product to product.



General formulation do's and don'ts

Suitability water based and solvent based formulations

Geospectra® C holographic glitter products are made of coated polyester glitter flakes. Glitter is an 'open' product due to the fact that the film is cut after it has been aluminized and coated. Every single glitter has an edge of exposed aluminium and coating which is created when the particles are cut from the film. For this reason caustics and all chemicals normally affecting pure aluminium and/or coating may react with the exposed edges.

Geospectra® cosmetic holographic glitter products that are used in cosmetic solvent based formulations, like nail polish, may cause bleeding or loss of effect.

UV stability

Geospectra® cosmetic holographic glitter which contain colourants can be sensitive to UV light.

Temperature resistance

Geospectra® cosmetic holographic glitter is heat resistant up to a maximum temperature of 180°C.

Finished product	Level of use (recommendation)
Hair styling gel	0,01 - 0,1 %
Hair colouring gel	3 - 5 %
Shower gel	0,01 - 0,1 %
Eye shadow gel	15 - 20 %
Skin gel	0,05 - 0,1 %
Eyeliner	1 - 10 %
Soaps	0,3 - 4,0 %
Pressed powder	30 - 70 %
Loose powder	up to 100 %
Blusher	1 - 5 %
Face powder	1 - 5 %
Body powder	1 - 5 %
Lipstick	12 - 20 %
Lip balm	3 - 5 %
Lip gloss	3 - 5 %
Lip lacquer	10 - 15 %
Body lotion	1 - 3 %
Shampoo	0,1 - 1 %



Formulation guideline | Nail Enamel

Product: Nail Enamel
Code: GL-160120
Special effect pigment: Geospectra C Silver 015 HEX x 001 | Geoshine C Multicolour 008 HEX x 001

Product name	INCI name	% WT.	Supplier
Phase A			
Glitter base 14757	Proprietary information	95.00	International Lacquers
Geospectra C Silver 015 HEX x 001	Polyethylene terephthalate Polyurethane-11 CI 77000	2.50	Geotech International B.V.
Geoshine C Multicolour 008 HEX x 001	Polyethylene terephthalate Polyurethane-11 CI 77000 CI 15850 CI 19140 CI 77510	2.50	Geotech International B.V.

Procedure

1. Combine all ingredients and mix until homogeneous
2. Pour into nail enamel bottle



Formulation guideline | Lip gloss

Product: Lip gloss
 Code: GL-210910
 Special effect pigment: Geospectra C Pink 006 HEX x 001

Product name	INCI name	% WT.	Supplier
Phase A			
Versagel ME 750	Hydrogenated Polyisobutene (and) Ethylene Propylene Styrene Copolymer (and) Butylene Ethylene Styrene Copolymer	71.90	Calumet Penreco
Jojoba Oil	Simmondsia Chinensis (Jojoba) Seed Oil	2.20	Sigma Oil Seeds
Caprylyl Trimethicone	Caprylyl Trimethicone	7.80	
Stearyl Dimethicone	Stearyl Dimethicone	3.60	
Nexbase 2002	Hydrogenated Polydecene	4.50	Neste Oil
Crodamol IPM	Isopropyl Myristate	5.00	Croda
Phase B			
Geospectra C Pink 006 HEX x 001	Polyethylene terephthalate Polyurethane-11 CI 77000 CI 15850 CI 19140 CI 77510	5.00	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.



Formulation guideline | Liquid-Gel Eyeshadow

Product: Liquid-Gel Eyeshadow
 Code: GL-221121b
 Special effect pigment: Geospectra C Malibu Gold 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	
Geoshine C Fuchsia 008 HEX x 001	Polyethylene Terephthalate Polyurethane-11 CI 77000 CI 19140	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 | Lip gloss






Product: Lip gloss
 Code: GL-210910b
 Special effect pigment: Geospectra C Lavender 015 HEX x 001

Product name	INCI name	% WT.	Supplier
Phase A			
Versagel ME 750	Hydrogenated Polyisobutene (and) Ethylene Propylene Styrene Copolymer (and) Butylene Ethylene Styrene Copolymer	71.90	Calumet Penreco
Jojoba Oil	Simmondsia Chinensis (Jojoba) Seed Oil	2.20	Sigma Oil Seeds
Caprylyl Trimethicone	Caprylyl Trimethicone	7.80	
Stearyl Dimethicone	Stearyl Dimethicone	3.60	
Nexbase 2002	Hydrogenated Polydecene	4.50	Neste Oil
Crodamol IPM	Isopropyl Myristate	5.00	Croda
Phase B			
Geospectra C Lavender 015 HEX x 001	Polyethylene terephthalate Polyurethane-11 CI 77000 CI 15850 CI 19140	5.00	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.



Product name						Polyethylene Terephthalate	Polyurethane -11	Aluminum (CI 77000)	FD&C Yellow 5 (CI 19140)	D&C Red 7 (CI 15850)	Ferric Ammonium Ferrocyanide (CI 77510)	D&C Black 2 (CI 77299)
Geospectra C Silver	⊙	●	●	●	●	X	X	X				
Geospectra C Malibu Gold	⊙	●	●	●	●	X	X	X	X			
Geospectra C Pink	⊙	⊙	●	●	●	X	X	X	X	X	X	
Geospectra C Lavender	⊙	⊙	●	●	●	X	X	X		X	X	
Geospectra C Purple	⊙	⊙	●	●	●	X	X	X		X	X	
Geospectra C Red	⊙	⊙	●	●	●	X	X	X		X		
Geospectra C Black	●	●	●	●	●	X	X	X				X

- Global approval
- ⊙ European and Japanese approval



Available packaging

Geospectra® C

Nett weight	Gross weight	Package size L x W x H
5 kg	6 kg	35 x 18 x 21 cm
25 kg	27 kg	40 x 40 x 50 cm

Packed in a plastic bag in a cardboard box.

Geospectra® C Random

Nett weight	Gross weight	Package size L x W x H
25 kg	27 kg	40 x 40 x 50 cm

Packed in a plastic bag in a cardboard box.

Shelf life

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

Samples

Approx. 50 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.



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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