

 **Sunrise**[®]
MICA

functional fillers for cosmetics

Sunrise® mica functional fillers for cosmetics

The Sunrise® mica product portfolio contains products of natural and synthetic mica.

The natural mica range is a wet-ground product produced from high purity flake mica concentrates by a slow frictional delamination process. It is renowned for its optical properties.

Sunrise® Crystal is an artificial mica. This synthetic fluorphlogopite grade offers outstanding colour purity, higher transparency and a lower content of impurities.

Due to its natural sheen Sunrise® mica is the perfect choice for cosmetics. It offers high UV stability, low abrasiveness, excellent lubricity, good skin adhesion and good resistance to heat, weather and chemicals. It creates buildable coverage without completely covering the skin. In colour cosmetics Sunrise® mica is used to give balance and consistency to pressed powders. Mica gives a smooth texture and adds a bit of shine to the product surface.

Sunrise® SVA mica is a special Lauroyl Lysine treated grade in the mica portfolio which provides an exceptional smooth texture, soft feeling and good skin adhesion for cosmetic products.

Product benefits

- Soft touch
 - Improves compressability of pressed powders
 - Improves optical appearance
 - Sunrise SVA improves skin adhesion
 - Compatible with most cosmetic formulations
 - In compliance with cosmetic regulations
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Applications

We recommend to use this productline for the following applications.



Sunrise® mica range

The natural mica based Sunrise® mica range is a wet-ground product produced from high purity flake mica concentrates by a slow frictional delamination process.

Art. nr.	Product name	Particle size
2104100	Sunrise 325	10 - 45 micron
2104120	Sunrise 970	5 - 25 micron
2104140	Sunrise SVA	5 - 25 micron

Sunrise® Crystal mica range

The synthetic fluorophlogopite based Sunrise® Crystal offers outstanding colour purity, higher transparency and a lower content of impurities.

Art. nr.	Product name	Particle size
2104150	Sunrise Crystal 1 - 15	1 - 15 micron
2104160	Sunrise Crystal 5 - 25	10 - 60 micron
2104180	Sunrise Crystal 10 - 60	5 - 25 micron



General formulation do's and don'ts

Low content of impurities

The synthetic Sunrise® Crystal mica products contain a lower amount of impurities compared to natural mica.

Colour purity

The colour purity and whiteness of synthetic the Sunrise® Crystal range is high and therefore the best choice for white and light coloured formulations. For opaque formulations the Sunrise® Crystal range is also recommended.

Compressibility

By using a combination of Sunrise® products the compressibility of pressed powder formulations can be controlled.

Finished product	Level of use (recommendation)
Soaps	0,3 - 4,0 %
Pressed powder	20 - 70 %
Loose powder	up to 100 %
Blusher	1 - 20 %
Face powder	1 - 5 %
Body powder	1 - 5 %
Lipstick	1 - 20 %
Lip balm	0,5 - 5 %
Lip gloss	0,5 - 5 %
Lip lacquer	2 - 15 %



Formulation guideline | Liquid Eyeliner

Product: Liquid Eyeliner
 Code: GL-211301
 Special effect pigment: Geoparl C Skylight Golden Bronze | Geoparl C Russet | Geoparl C Skylight Silver | Sunrise 970

Product name	INCI	% WT.	Supplier
Phase A			
Water	Water	65.20	
Veegum K Granules	Hydrated Magnesium Aluminium Silicate Mineral	1.00	R.T. Vanderbilt Minerals Company, Inc.
Phase B			
Triethanolamine	Triethanolamine	1.40	
Propylene Glycol	Propylene Glycol	8.00	
Phase C			
Keltrol Xanthan Gum	Xanthan Gum	0.30	CP Kelco U.S. Inc.
Preservatives	(water soluble)	q.s.	
Phase D			
Geoparl C Skylight Golden Bronze	Mica CI 77491 CI 77499	7.50	Geotech International B.V.
Geoparl C Russet	Mica CI 77491	5.00	Geotech International B.V.
Geoparl C Skylight Silver	Mica Titanium Dioxide CI 77499	2.50	Geotech International B.V.
Sunrise 970	Mica	5.00	Geotech International B.V.
Phase D			
Stearic Acid	Stearic Acid	2.80	
Glyceryl Stearate	Glyceryl Stearate	0.80	
Oleyl Alcohol	Oleyl Alcohol	0.50	
Preservatives		q.s.	

Procedure

1. Disperse the Magnesium Aluminium Silicate Mineral into water using high-shear mixing
2. Add Phase B to Phase A and mix until uniform
3. Add Phase C to Phase A + B and mix until uniform
4. Add Phase D and mix until uniform
5. Heat Phase A + B + C + D to 75°C ± 5°C
6. Premix Phase E to 75°C ± 5°C and add Phase E to Phase A + B + C + D and mix until uniform
8. Cool to 35°C ± 5°C and pour into eyeliner container



Formulation guideline | Pressed powder






Product: Eye Shadow
 Code: GL-201010
 Special effect pigment: Sunrise SVA | Sunrise 970 | Geoparl C Crystal Silk Black | Geoparl C Crystal Silk Blue

Product name	INCI name	% WT.	Supplier
Phase A			
Sunrise SVA	Mica Lauroyl Lysine	10.00	Geotech International B.V.
Sunrise 970	Mica	7.00	Geotech International B.V.
Zinc Stearate	Zinc Stearate	7.00	
Boroneige 1501	Boron Nitride	2.50	ESK
Luzenac 00	Talc	23.50	Luzenac
Phase B			
Fragrance			
Antioxidant			
Presservative			
Phase C			
Geoparl C Crystal Silk Black	Synthetic Fluorphlogopite CI 77499	25.00	Geotech International B.V.
Geoparl C Crystal Silk Blue	Synthetic Fluorphlogopite Titanium Dioxide	15.00	Geotech International B.V.
Phase D			
DC 200 Fluid 5cts	Dimethicone	6.25	Dow Corning
DC 9040 Elastomer	Cyclomethicone Dimethicone Crosspolymer	6.25	Dow Corning

Procedure

1. Thoroughly blend Phase A in a blender
2. Add Phase B to Phase A and mix until uniform
3. Add Phase C to Phase A + B and mix until uniform
4. Add Phase D to Phase A + B + C and mix until uniform
5. Press the powder



Art. nr.	Product name	 Lip area	 Eye area	 Nail	 External	 Rinse off	Mica	Synthetic fluorophlogopite	Lauroyl Lysine
2104100	Sunrise 325	●	●	●	●	●	X		
2104120	Sunrise 970	●	●	●	●	●	X		
2104140	Sunrise SVA		●				X	X	
2104150	Sunrise Crystal 1 - 15	●	●	●	●	●	X		
2104160	Sunrise Crystal 5 - 25	●	●	●	●	●	X		
2104180	Sunrise Crystal 10 - 60	●	●	●	●	●	X		

- Global approval
- European and United States approval
- ⊙ European and Japanese approval



Available packaging

Product	Nett weight	Gross weight	Package size L x W x H
Sunrise Crystal 1 - 15	15 kg	17 kg	40 x 40 x 50 cm
Sunrise Crystal 5 - 25	20 kg	22 kg	40 x 40 x 50 cm
All other Sunrise products	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

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