



GEOTECH

SPECIAL EFFECT PIGMENTS

**SPECIAL EFFECT PIGMENTS AND
HIGH PERFORMANCE INGREDIENTS
FOR THE COSMETICS INDUSTRY**



GEOTECH | Enhancing product appearances

Geotech International B.V., founded in 1984, manufactures and distributes special effect pigments and high-performance ingredients. We are a privately owned family business with operations in the Netherlands (HQ), France, Türkiye and China. A global sales network serves over 800 customers worldwide with 10 product lines.

Today, the company is managed by the third generation, focusing on innovation and sustainability. GEOTECH's sustainability programme has been recognised by EcoVadis for its success, consistently placing us among the top-rated companies they assess. A certified quality management system based on ISO 9001 and GMP standards ensures reliability and excellence.

Our cosmetic portfolio comprises renowned Geopearl®, Geocarmen®, Geoflake®, Geodiamond®, Silux® and Metalloy® special effect pigments, intense Midnight Black® pigments and dispersions, Sunrise® mica powders and Geosoft® silica spheres. We present our materials in trend-driven colour concepts, backed by innovative formulations developed by our own chemists. An experienced team of specialists is available to provide you with a high level of service and technical support.



ecovadis



Our Brands

Effect pigments



Intense black pigments



Metallic Pigments



Functional fillers



Recommended applications



- Nails



- Eye area



- Lip area



- Rinse off



- External

Pearlescent pigments

Pearlescent pigments are partially translucent powders formed by depositing titanium dioxide and/or iron oxides onto a specific substrate. They provide fascinating colour and visual effects to cosmetics. The translucent pigments easily reflect light because of their smooth surface. The lustre of light reflected off of the platelets changes depending on the particle size. Smaller particles provide a satin sheen, while coarse ones give sparkling and glittering effects.

GEOTECH's pearlescent pigments are based on responsibly sourced natural mica, synthetic mica and borosilicate flakes.





Conventional natural mica pearlescent pigments

Traditional pearlescent pigments based on responsibly sourced natural mica, coated with combinations of titanium dioxide and iron oxides offering visual effects that imitate natural pearls and add elegance to cosmetics.

Recommended applications



Properties and features



Chemical composition:

Mica | Titanium Dioxide | Tin Oxide | Iron Oxide

Available in particle sizes ranging from 1 – 15 micron to 50 - 500 micron

A product range which contains over 100 products

High temperature resistant

In compliance with cosmetic regulations

Solvent and water resistant



Premium synthetic mica pearlescent pigments

The second generation of pearlescent pigments is based on synthetic mica, coated with combinations of silica, titanium dioxide and iron oxides. These pigments provide unsurpassed performance in brightness and colour purity varying from white to metallic earth tone effects.

Recommended applications



Properties and features



Chemical composition:

Synthetic Fluorophlogopite | Silica | Titanium Dioxide | Tin Oxide | Iron Oxide

Available in particle sizes ranging from 1 – 5 micron to 50 - 1000 micron

A product range which contains over 100 products

High temperature resistant

UV resistant

Solvent and water resistant

Good batch-to-batch consistency

Low heavy metal content

In compliance with cosmetic regulations



Carmine-red pearlescent pigments

By combining a smooth pearlescent substrate with a carmine coating, these pigments deliver intense red, pink and berry hues with light reflection. They offer excellent dispersion and stability, making them ideal for high-impact lip and powder formulations.

Recommended applications



Properties and features



Chemical composition:

Mica | Titanium Dioxide | Tin Oxide | Iron Oxide | Carmine | Ferric Ferrocyanide

Good batch-to-batch consistency

In compliance with cosmetic regulations

Effect pigments



Premium substrate free colour travel pigments

Silux® Aurora is a revolutionary uncoated pigment, unlike traditional effect pigments. Composed of thin layers of silica and titanium dioxide, it delivers a vibrant three-stage colour travel effect. With minimal quantity, Silux® Aurora creates exceptional interference and colour play.

Recommended applications



Properties and features



Chemical composition:
Silica | Titanium Dioxide

Available particle sizes:
10 – 75 micron | 40 - 250 micron

Iridescent effect

UV-Resistant

Temperature Resistant

Solvent and water resistant

Excellent batch-to-batch consistency

In compliance with cosmetic regulations



Plastic free glitter effects

This innovative product range is specifically developed as a sustainable alternative for traditional polyester based glitter. The basic structure of this product line is a coarse, thin platelet of synthetic mica, coated with combinations of titanium dioxide, iron oxide or colourants.

Recommended applications



Properties and features



Chemical composition:
Synthetic Fluorophlogopite | Titanium Dioxide |
Tin Oxide | Iron Oxide | Pigments

Available particle sizes:
200 – 500 micron | 500 - 1000 micron

Available colours:
Silver | White | Red Gold | Royal Blue | Salmon |
Lavender | Green | Rainbow

Plastic free glitter effect

Smooth skin and nail feel

Controlled unique narrow particle size distribution

In compliance with cosmetic regulations



Sophisticated sparkling glass flakes

A premium line of pearlescent pigments based on borosilicate glass flakes, coated with combinations of titanium dioxide, iron oxides or silver Ag. Thanks to a variety of coarse particle sizes, they are an extraordinary option for exclusive glittering effects.

The exclusive Geodiamond Silver Ag pigments produce a brilliant mirror like sparkling reflection which cannot be achieved by any other technology.

Recommended applications



Properties and features



Chemical composition:
Calcium Sodium Borosilicate | Titanium Dioxide |
Tin Oxide | Iron Oxide | Silver Ag

Available in particle sizes ranging from 10 – 60
micron to 100 - 500 micron

Low heavy metal content

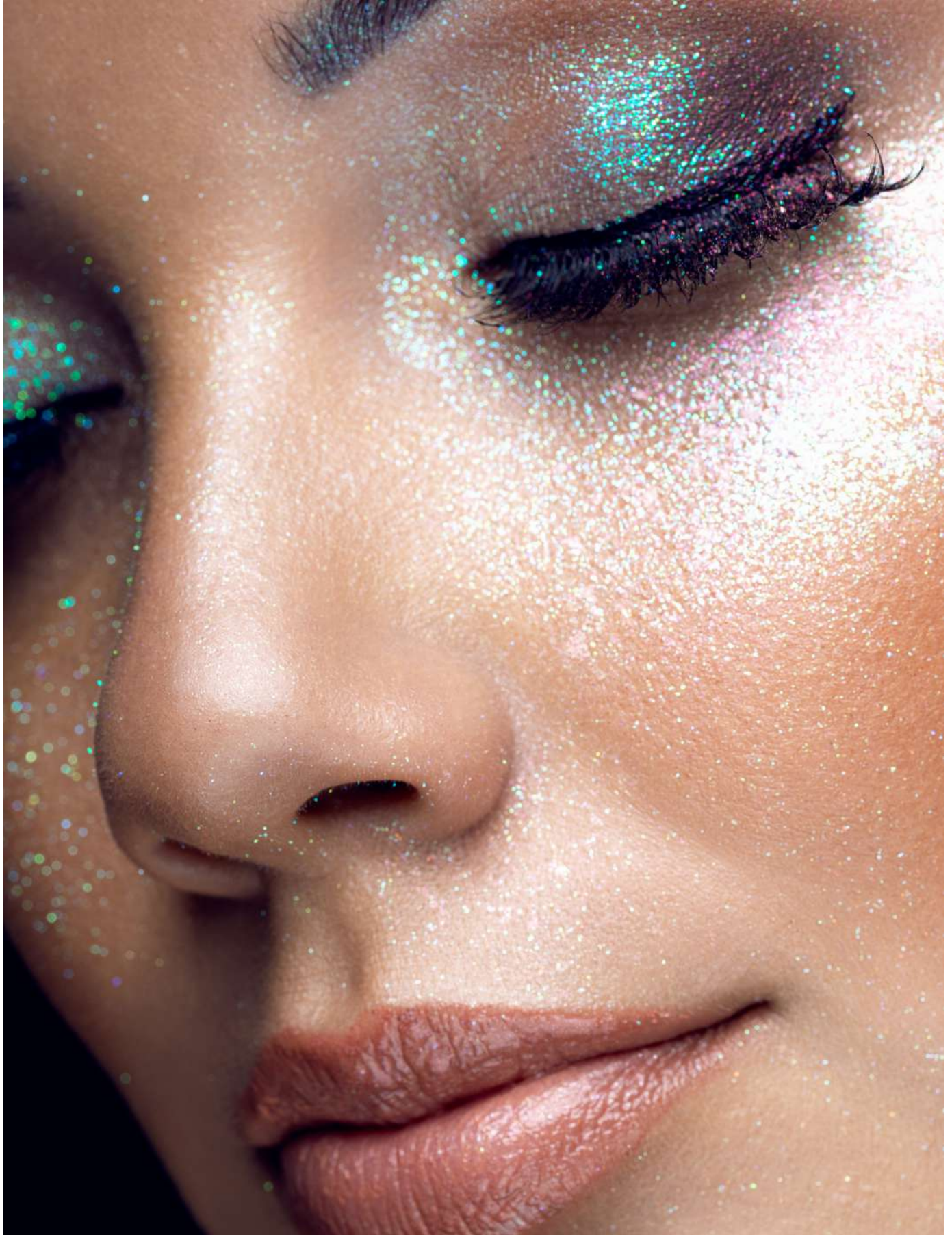
High temperature resistance

In compliance with cosmetic regulations

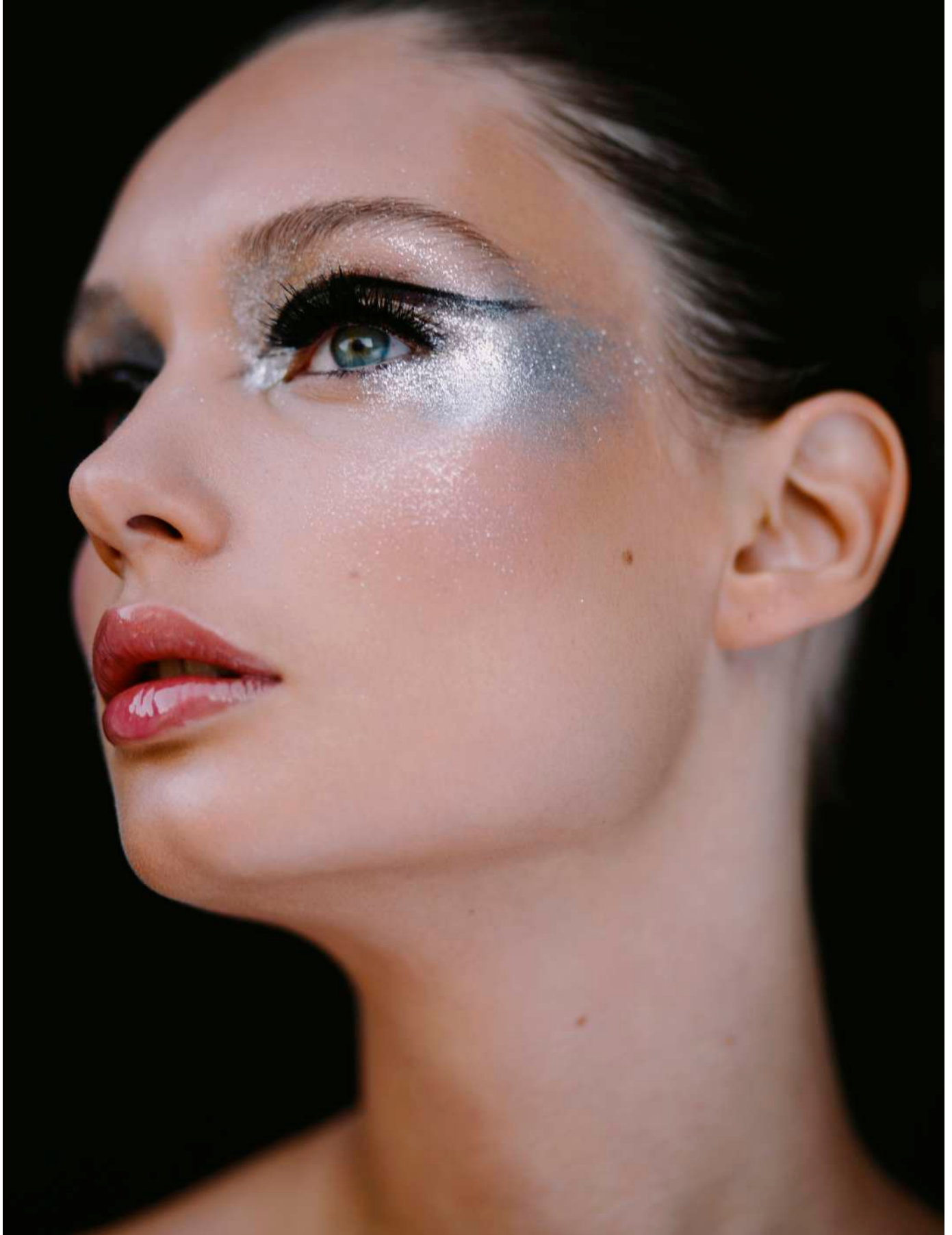
Solvent and water resistant

Good batch-to-batch consistency





Metallic and intense black pigments



Metalloy®

ALUMINIUM PIGMENTS

Brilliant metallic particles

High quality aluminium particles offering silver metallic effect. The silica coated aluminium powders are innovative aluminium pigments especially developed for application in colour cosmetics.

Additionally, the line includes a specialized Metalloy pigment preparation based on advanced VMP technology, formulated specifically for solvent based nail polish.

Recommended applications



Properties and features

Particle sizes: 30 - 60 micron | 50 - 80 micron | 50 - 150 micron

Suitable for nitrocellulose and waxed based formulations

Reflective / High coverage

Ideal in combination with other effect pigments

Midnight Black®

INTENSE BLACK PIGMENTS

Intense black pigments, powders and dispersions

Based on high purity carbon and charcoal, the Midnight Black portfolio unites GEOTECH's premium black pigments. Available as versatile powders and ready-to-use dispersions, the range is designed to deliver unparalleled depth and formulation flexibility.

It features our exclusive, EU-produced Midnight Black® (D&C Black 2) for the deepest blue-black shades, alongside Midnight Black® Bio, a 100% bio-based charcoal alternative for sustainable cosmetics.

Recommended applications



Properties and features

Intense colour payoff and high coverage

Outstanding batch-to-batch consistency

Available as versatile powders and ready-to-use dispersions

Excellent UV, solvent and thermal stability

Compliance with global cosmetic regulations

Vegan, Halal and 100% Plastic free

Functional fillers



Natural and synthetic mica functional fillers

Sunrise mica is a functional filler ingredients for cosmetics. It creates buildable coverage without completely covering the skin. In colour cosmetics, Sunrise® mica is used to give 'slip' and balance to pressed powders. It offers mattifying to glossy effects depending on size and material. The line includes untreated Sunrise® mica as well as an amino-acid derived treatment which offers softness and pigment adhesion.

Recommended applications



Properties and features



Chemical composition:
Natural mica or synthetic fluorphlogopite |
Lauroyl Lysine

Batch-to-batch consistency

Good skin adhesion

Excellent lubricity

Low abrasiveness

High UV stability

Resistant to heat, weather and chemicals



Spherical functional fillers

Geosoft® is a versatile range of 100% natural origin, non-plastic spherical silica designed to deliver an exceptional ball-bearing effect. These beads allow formulators to create microplastic-free cosmetics without compromising performance, offering a perfect balance of sensorial elegance, along with superior mattifying and blurring effects across a wide range of applications.

Recommended applications



Properties and features



Chemical composition:
Silica

100% natural origin & non-plastic

High-performance versatile texturizing agent

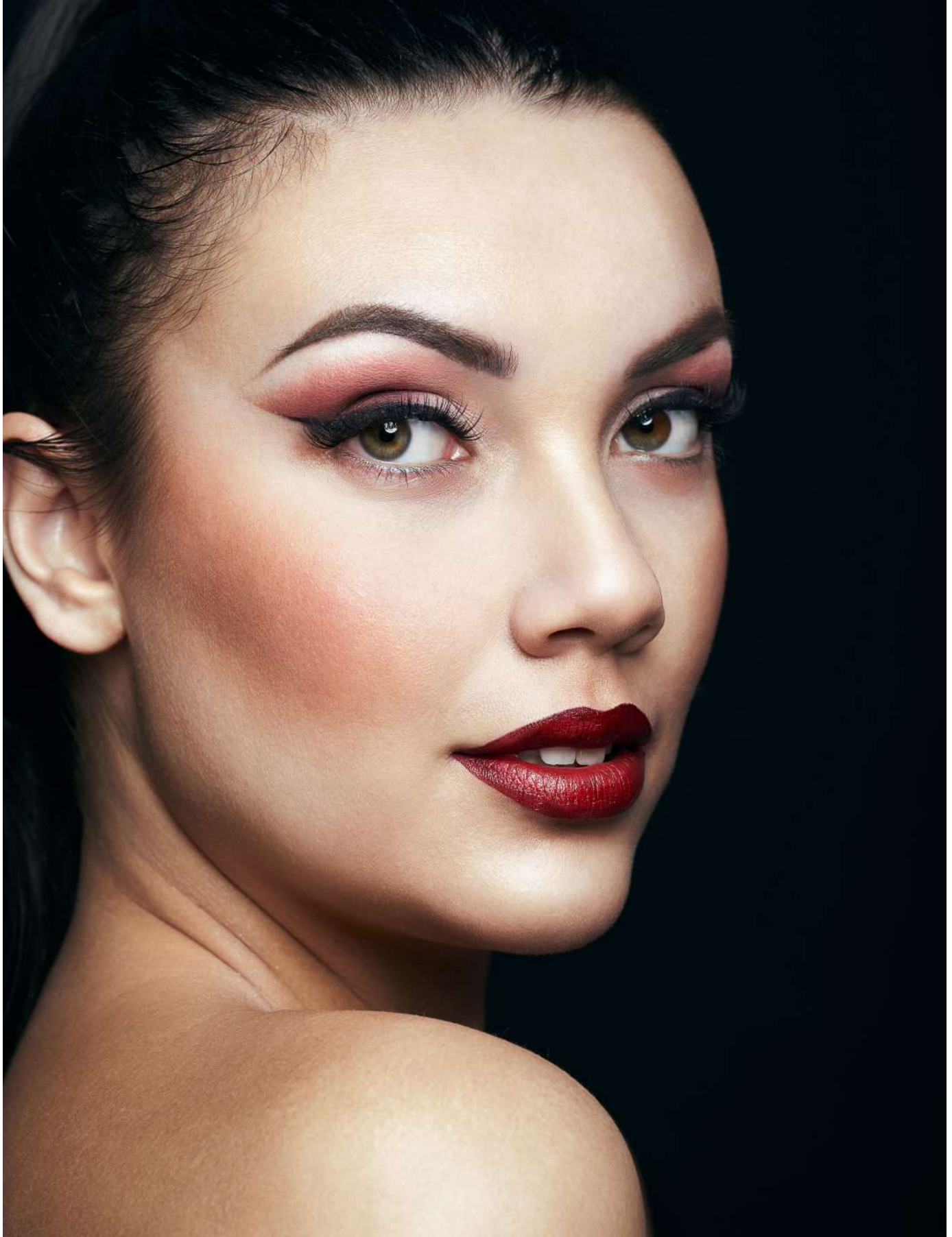
Ball-bearing effect for enhanced sensoriality

Low abrasiveness

High UV stability

Resistant to heat, weather and chemicals





Application laboratory

Cosmetics offer a powerful means of self-expression, building confidence, and promoting self-care. At GEOTECH, we continuously innovate by exploring new effects and formulations to empower this vision.

Located in Haarlem, The Netherlands, our in-house cosmetics application laboratory is where we develop formulations and colour concepts using our special effect pigments. This dedicated facility complements our existing laboratory for Quality Control and Product Development.



The activities of our cosmetic application laboratory include:

- Developing and testing new formulations
- Creating colour concepts
- Providing technical training on how to formulate with our pigments
- Colour and effect matching

Our cosmetic chemists provide technical support, enabling clients to fully utilize our products. For an overview of product formulations and colour concepts developed by our team, visit **www.geotech.nl/formulations**.

Explore our complete portfolio for the cosmetics industry at www.geotech.nl

