



Silux[®]

EFFECT PIGMENTS



Silux® Aurora is a premium, multi-layer effect pigment that is eye-catching with its strong iridescent colour travel effect. Silux® Aurora exhibits a multidimensional aurora colour play. The three-stage colour travel develops a unique result. Its outstanding performance requires only a small percentage in your formulation to create a dramatic iridescent colour travel effect, maximizing efficiency. Silux® Aurora transcends traditional effect pigments, offering formulators a new dimension of colours.

The Silux® Aurora product range comprises six premium effect pigments derived from three shifts. This range is available in two particle sizes: 10 - 75 micron and 40 - 250 micron.

- Silux Aurora Jungle Sunrise
Shift transitions from a fiery red to a vibrant yellow and finally into lush green.
- Silux Aurora Coral Reef
Shift transitions from a coral pink to a golden yellow and finally into lush green.
- Silux Aurora Tropical Ocean
Shift transitions from a deep, inky blue to a vibrant turquoise and finally into emerald green.

Silux® Aurora offers the opportunity to combine both particle sizes. When combined in a single formulation, these two particle sizes create a distinctive visual experience. The larger particles provide a vibrant sparkle, while the smaller particles add subtle shimmer and depth.

Printing applications can benefit from Silux® Aurora enhanced reflectivity and colour depth. Silux® Aurora effect pigments are UV, water- and solvent resistant.

Recommended applications



- Screen Printing



Product benefits

- High temperature resistance up to 1000°C
- UV Resistant
- Solvent and water resistant
- Excellent batch to batch consistency
- In compliance with global regulations for printing

Art. Nr.	Product	Particle Size (µm)
2005000	Silux Aurora Jungle Sunrise	10 - 75
2005005	Silux Aurora Coral Reef	10 - 75
2005010	Silux Aurora Tropical Ocean	10 - 75
2005001	Silux Aurora Glittering Jungle Sunrise	40 - 250
2005006	Silux Aurora Glittering Coral Reef	40 - 250
2005011	Silux Aurora Glittering Tropical Ocean	40 - 250

Order details

Available packaging

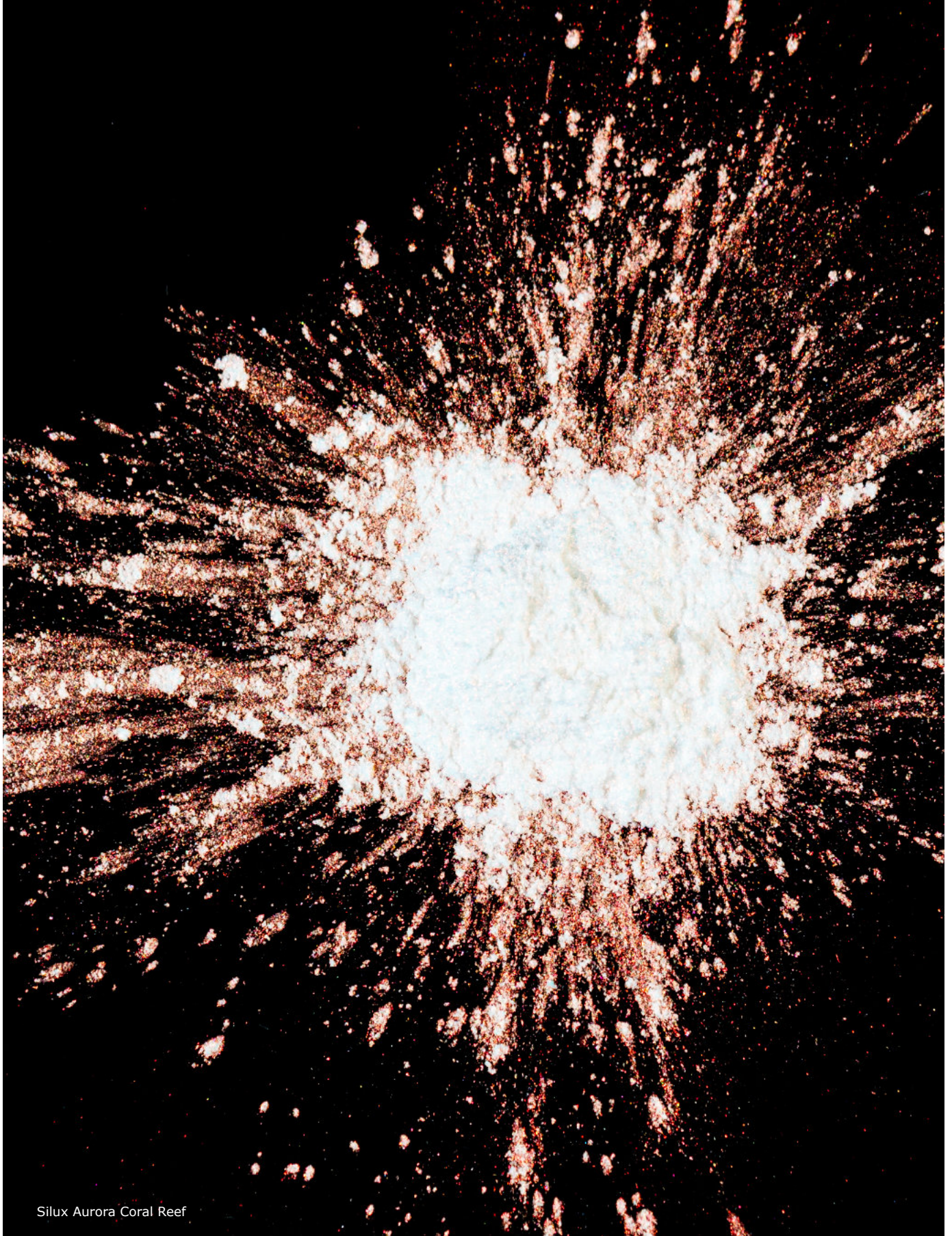
- 250 g Nett weight
- 1 kg Nett weight
- 10 kg Nett weight

Shelf life

- 5 years original packaging stored in a closed box under dry conditions

Product data

- Product data sheets and additional technical product information are available on <https://geotech.nl/>



Silux Aurora Coral Reef



GENERAL FORMULATION DO'S AND DON'TS

Avoid high shear or grinding

High shear and grinding can break the larger Silux® Aurora particles into smaller pieces which might result in a poor lustre effect. For improved handling pre-wetting the pigments is recommended by making a premix in vehicle (water or solvents) under slow stirring conditions.

Settling prevention

Silica based pigments, like many inorganic pigments, have a tendency to settle in paint formulations due to their high specific gravity. Therefore, good suspension is needed, achieved by increasing the viscosity of the paint vehicle or by adding special additives (thixotropic or suspending agents). Building an associated network in the paint vehicle will 'hold' the pigment particles and reduce the settling tendency.

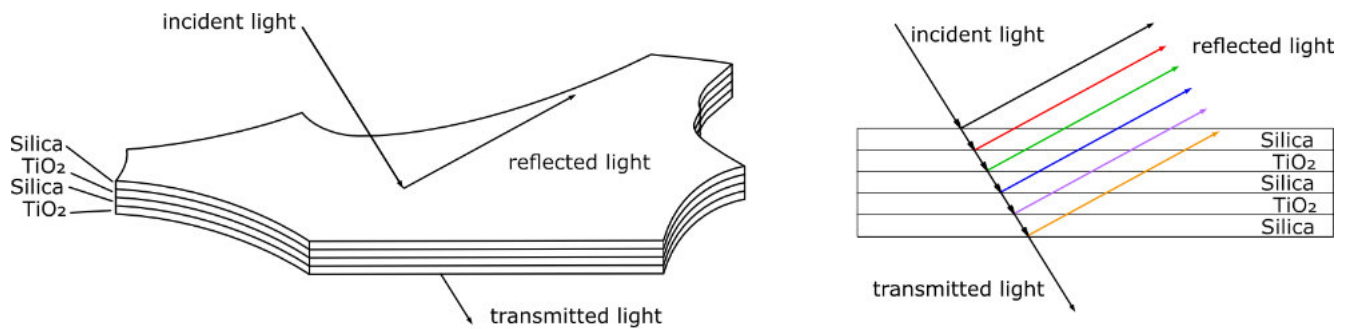
Applications and performance

The Silux® Aurora platelets are thin enough to allow their use in liquid coating applications, such as coatings for packaging and electronics. The particle size is large enough to create a sparkle effect in screen printing and powder coating applications. For dramatic effects, the pigment should be used over a dark background to highlight only the interference reflection colour. The transmitted colour is absorbed into the background. Applications over a light background produce a highlight effect, due to the intense reflection colour combined with the full transparency, allowing the background colour to show through.

The pigment concentration can be varied depending on the application: for both liquid and powder coating, a sufficient effect can be achieved with as little as 1% pigment (solid weight) concentration.

CHEMICAL COMPOSITION

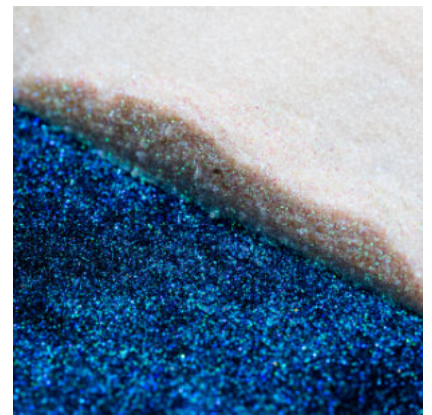
The chemical composition of Silux® Aurora consists of titanium dioxide and silica. The precise multi-layering within the Silux® Aurora structure creates a sophisticated optical interference phenomenon. This design maximises light reflection, resulting in vibrant aurora colour display. The reflectivity of this effect pigment emphasises the influence of the underlying background. Careful selection of the background colour can significantly enhance the visual impact and colour nuances for applications.



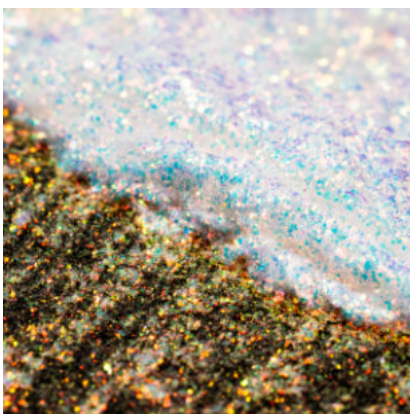
Silux Aurora Jungle Sunrise



Silux Aurora Coral Reef



Silux Aurora Tropical Ocean



Silux Aurora Glittering Jungle Sunrise



Silux Aurora Glittering Coral Reef



Silux Aurora Glittering Tropical Ocean





Silux Aurora Tropical Ocean

ABOUT US

Enhancing product appearances

Geotech International B.V., founded in 1984, manufactures and distributes special effect pigments. We are a privately owned family business with offices in The Netherlands, France and Turkey. A global sales network serves over 800 customers worldwide with 16 product lines.

Nowadays the company is managed by the third generation, focusing on innovation and sustainability. GEOTECH's sustainability program has been recognized 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.

With over 450 special effect pigments in our portfolio we offer a diverse range of products for the coatings & paints industry. An experienced team of specialists is available to provide you with a high level of service and technical support.

GEOTECH's special effect pigments are used globally in various industries to differentiate consumer products by creating attractive and luxurious appearances.



ecovadis



Printing

At Geotech International B.V., we support our clients in the printing industry by testing special effect pigments for printing applications.

Our expertise in new effects and pigment applications helps clients achieve unique and high-quality results, enhancing the visual and functional appeal as used in a wide variety of products, like packaging, product labels, textile, greeting cards etc. They add a luxurious special effect to differentiate consumer products.



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



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