



GLITTERING MICA FLAKES



The innovative product range Geoflake® is developed by GEOTECH as a sustainable alternative for polyester glitter.

The new range Geoflake® effect pigments consists of a basic structure of course, ultra-thin platelets of synthetic mica coated with titanium dioxide, iron oxide and organic colourants.

The Geoflake® range contains a stunning amount of 15 products. Silver, White, Red Gold, Royal Blue, Green, Lavender, Salmon and Rainbow are the eight colours available in two different particle sizes. The available sizes are XL, with an average of 350 micron and XXL, with an average of 750 micron.

The narrow particle size distribution achieved by an innovative production process makes Geoflake® products unique. It creates an optical effect which is similar to precision cut polyester glitter.

Geoflake® glittering mica flakes are non-toxic and comply to the main regulations. The titanium dioxide and iron oxide coated Geoflake products are UV, water- and solvent resistant.

Product benefits

- Environmental friendly compostable particles
- Polyethylene Terephthalate free material
- Traditional glitter effect
- In compliance with global regulations for coatings & paints

Recommended applications



- Cast flooring



- Decorative paints



PRODUCT RANGE

Art. Nr.	Product	Particle Size (µm)					
1950008	Geoflake Crystal Silver XL	200 - 500				X	X
1950007	Geoflake Crystal White XL	200 - 500				X	X
1950507	Geoflake Crystal White XXL	500 - 1000				X	X
1950006	Geoflake Crystal Rainbow XL	200 - 500				X	X
1950506	Geoflake Crystal Rainbow XXL	500 - 1000				X	X
1950005	Geoflake Crystal Red Gold XL	200 - 500				X	X
1950505	Geoflake Crystal Red Gold XXL	500 - 1000				X	X
1950001	Geoflake Crystal Salmon XL	200 - 500				X	X
1950501	Geoflake Crystal Salmon XXL	500 - 1000				X	X
1950004	Geoflake Crystal Lavender XL	200 - 500				X	X
1950504	Geoflake Crystal Lavender XXL	500 - 1000				X	X
1950003	Geoflake Crystal Royal Blue XL	200 - 500				X	X
1950503	Geoflake Crystal Royal Blue XXL	500 - 1000				X	X
1950002	Geoflake Crystal Green XL	200 - 500				X	X
1950502	Geoflake Crystal Green XXL	500 - 1000				X	X

Order details

Available packaging

- 5 kg Nett weight
- 25 kg Nett weight

Shelf life

- 10 years in 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/>



GENERAL FORMULATION DO'S AND DON'TS

Avoid high shear or grinding

The synthetic fluorophlogopite based Geoflake® glittering mica flakes are available in the sizes XL, with an average of 350 micron and XXL, with an average of 750 micron. Synthetic Fluorophlogopite is composed of magnesium aluminum silicate sheets, weakly bound together. Surfaces held together by relatively weak bonds will tend to break more easily than those held together by strong bonds. High shear and grinding can break the large Geoflake® particles into smaller pieces. For improved handling pre-wetting the pigments is recommended by making a premix in vehicle (oils or solvents) under slow stirring conditions.

Colourants might bleed

To obtain the strong and vibrant Geoflake® Crystal Royal Blue, Geoflake® Crystal Green, Geoflake® Crystal Lavender and Geoflake® Crystal Salmon colourants are used. Colourants might bleed. "Bleeding" or "Migrating" refers to a colour which tends to migrate over from one place to another. It is a common problem for colourants when used in water based formulations like gels, emulsions, creams or lotions. The Geoflake® Crystal Silver, Geoflake® Crystal White, Geoflake® Crystal Red Gold and Geoflake® Crystal Rainbow contain inorganic pigments and therefore do not bleed or migrate in water based formulations.

High oil absorption

Geoflake® glittering mica flakes have a high oil absorption. The oil absorption of a pearlescent pigment is a practical measure of the surface and particle shape of the pigment. In general it is the amount of oil that it takes to saturate 100g of the pearlescent pigment. The larger the material's surface area the higher the oil absorption value of the pigment and the more binder it will require to bind it. Also here: for improved handling pre-wetting the pigments is recommended by making a premix in vehicle (oils or solvents) under slow stirring conditions.

UV stability

The Geoflake® glittering mica flakes which contain organic colourants are sensitive to UV light.

Concentration

Finished product	Recommended level of use
Decorative coatings	10 - 15 % (topcoats 1 - 3 %)
Cast flooring	1 - 10 %

ABOUT US

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. Since 2020, Ecovadis has awarded GEOTECH's sustainability program a Gold medal every year, placing us in the top 5% of companies assessed by them. 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.



Coatings

GEOTECH supplies effect pigments for interior and exterior applications, printing inks, aerosols, textile, glass and seed coatings. Pearlescent pigments based on mica, synthetic mica and borosilicate create unique luster and color effects that otherwise occur only in nature. These effects are available from silver-white, red and bronze-colored earth tones and interference to gold luster. Effects from shimmer to glitter are possible, depending on the particle size distribution.



Explore our complete portfolio for the coatings and paints industry at www.geotech.nl



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