



GEOTECH

SPECIAL EFFECT PIGMENTS



Geodiamond[®]

PEARLESCENT PIGMENTS



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Geodiamond® effect pigments are exclusive specialty pigments based on borosilicate flakes. They bring products to life with brilliant colour and glittering effects. Geodiamond® pigments are coated with titanium dioxide, iron oxide, real silver (Ag) and more, resulting in unlimited possibilities for formulators looking for eye-catching effects in coating products.

The product range includes the following types:

- White/pearl borosilicate based effect pigments;
- Interference borosilicate based effect pigments;
- Golden borosilicate based effect pigments;
- Silver Ag borosilicate based effect pigments.

Each range offers a variety of particle sizes: XS (10– 60 µm), S (10– 100 µm), M (30– 220 µm), L (50– 350 µm) and XL (80– 450 µm).

The white and interference Geodiamond® pigments out-perform traditional mica based pearlescent pigments in lustre, brightness, transparency and reflectivity. They create an exceptionally high visual impact. This makes them suitable for all kinds of coating applications.

The exclusive Geodiamond® Silver Ag pigments produce an extremely brilliant mirror like reflection (> 88%) and sparkling effect which cannot be achieved by any other technology.

Product benefits

- Creates luxurious and sophisticated diamond effects in coating and paint products
- Alternative for polyester glitter particles
- Excellent transparency of glass flakes
- In compliance with global regulations for coatings & paints

Recommended applications



- Spray coating



- Powder coating



- Aerosols








- Cast flooring



- Decorative paints








PRODUCT RANGE






Art. Nr.	Product	Particle Size (µm)					
1216100	Geodiamond Pearl XS	10 - 60	X	X	X	X	X
1216200	Geodiamond Pearl S	10 - 100	X	X	X	X	X
1216300	Geodiamond Pearl M	20 - 150				X	X
1216600	Geodiamond Pearl L	50 - 200				X	X
1216610	Geodiamond Pearl XL	100 - 500	X	X	X	X	X
1216110	Geodiamond Gold XS	10 - 60	X	X	X	X	X
1226210	Geodiamond Gold S	10 - 100	X	X	X	X	X
1226310	Geodiamond Gold M	20 - 150				X	X
1226610	Geodiamond Gold L	50 - 200				X	X
1226720	Geodiamond Gold XL	100 - 500				X	X
1216120	Geodiamond Red XS	10 - 60	X	X	X	X	X
1226220	Geodiamond Red S	10 - 100	X	X	X	X	X
1226320	Geodiamond Red M	20 - 150				X	X
1226620	Geodiamond Red L	50 - 200				X	X
1226725	Geodiamond Red XL	100 - 500				X	X
1216140	Geodiamond Blue XS	10 - 60	X	X	X	X	X
1226240	Geodiamond Blue S	10 - 100	X	X	X	X	X
1226340	Geodiamond Blue M	20 - 150				X	X
1226640	Geodiamond Blue L	50 - 200				X	X
1226735	Geodiamond Blue XL	100 - 500				X	X

PRODUCT RANGE



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Art. Nr.	Product	Particle Size (µm)					
1216150	Geodiamond Green XS	10 - 60	X	X	X	X	X
1226260	Geodiamond Green S	10 - 100	X	X	X	X	X
1226360	Geodiamond Green M	20 - 150				X	X
1226660	Geodiamond Green L	50 - 200				X	X
1226735	Geodiamond Green XL	100 - 500				X	X
1216130	Geodiamond Violet XS	10 - 60	X	X	X	X	X
1226250	Geodiamond Violet S	10 - 100	X	X	X	X	X
1226350	Geodiamond Violet M	20 - 150				X	X
1226650	Geodiamond Violet L	50 - 200				X	X
1226730	Geodiamond Violet XL	100 - 500				X	X
1226630	Geodiamond Fuchsia L	50 - 200				X	X

Art. Nr.	Product	Particle Size (µm)					
1226700	Geodiamond Super Red Gold L	50 - 200				X	X
1276410	Geodiamond Silver Ag XS	10 - 60	X	X	X		
1276400	Geodiamond Silver Ag S	10 - 100	X	X	X		
1276450	Geodiamond Silver Ag M	30 - 220				X	X
1276500	Geodiamond Silver Ag L	50 - 350				X	X
1276520	Geodiamond Silver Ag XL	80 - 450				X	X

Order details

Available packaging

- 1 kg Nett weight
- 5 kg Nett weight
- 25 kg Nett weight

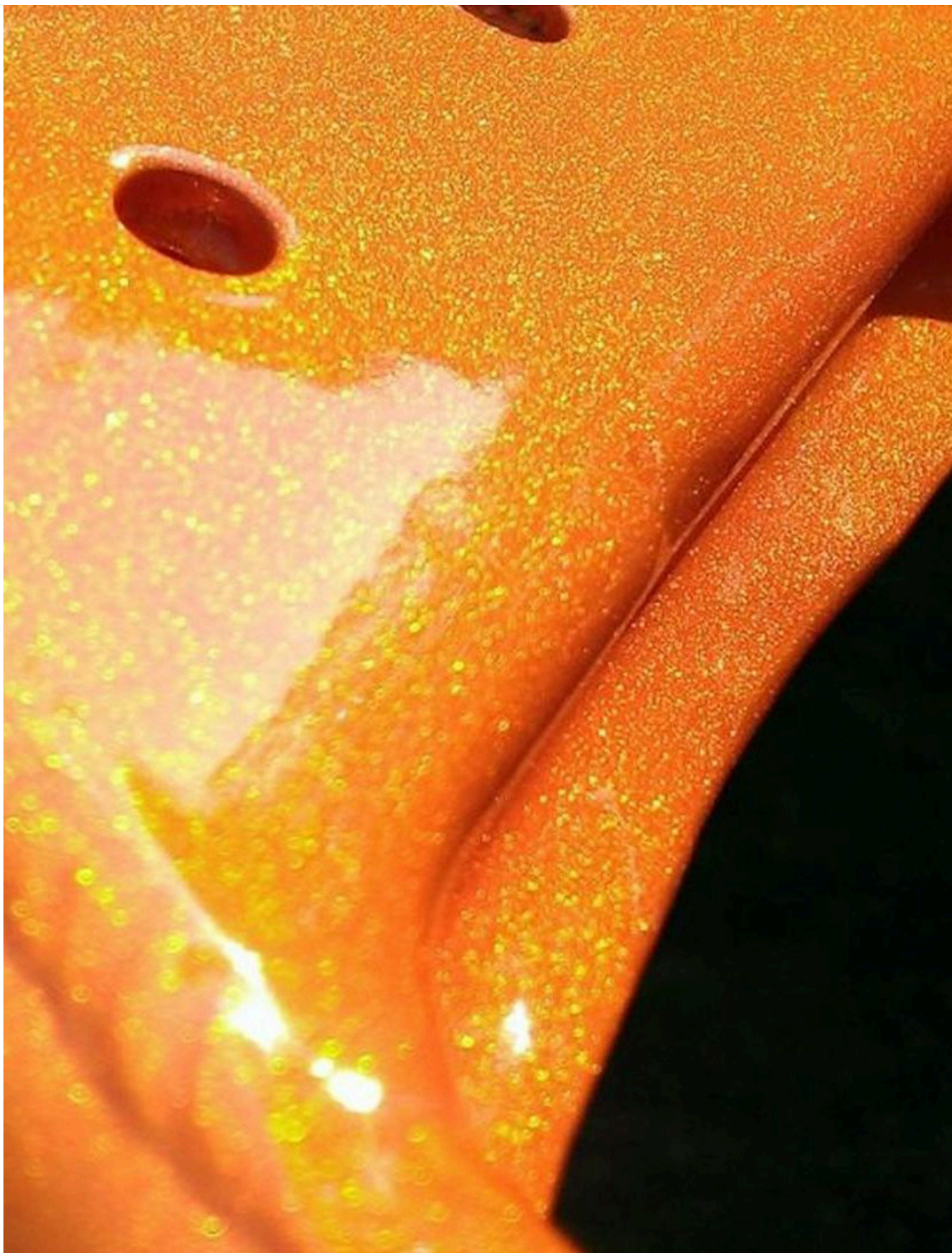
Shelf life

- 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



GENERAL FORMULATION DO'S AND DON'TS

Avoid high shear or grinding

The calcium sodium borosilicate based Geodiamond® pearlescent pigments are available in different sizes. From XS with an average particle size of 25 micron until and XL, with an average of 175 micron. Calcium sodium borosilicate is a brittle substrate and therefore high shear and/or grinding can break the particles. For improved handling pre-wetting the pigments is recommended by making in a premix in vehicle (oils or solvents) under slow stirring conditions.

Settling prevention

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

Colour mixing

Unlike traditional pigments, iridescent pearls reflect, refract and transmit light and follow an additive colour mixing scheme. A mix of blue and yellow interference pearls will yield a white reflection rather than the expected green (= subtractive colour mixing). This is why only limited mixing (so called tinting) of interference pigments is advised.

Concentration

Finished product	Recommended level of use
Spray coating	1 - 10 % (topcoats 1 - 3 %)
Powder coating	3 - 5 %
Aerosols	1 - 5 %
Cast flooring	1 - 10 %
Decorative paints	10 - 15 % (topcoats 1 - 3 %)

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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