



Geopearl®

PEARLESCENT PIGMENTS



Geopearl[®] pearlescent pigments create an infinite range of visual effects that capture your eyes and give unrivalled elegance to printing appplications. The extensive portfolio contains over 75 natural mica based pearlescent pigments which provide luxury to colour printing appplications.

Geopearl® pigments are used worldwide in printing appplications.

The characteristic shimmer of Geopearl[®] has been designed to match the unique luster of natural pearls. The basic structure is a platelet of mica which is coated with a metal oxide. We offer titanium dioxide and iron oxide coated pearlescent pigments.

Resulting from reflected, refracted and transmitted light patterns developed at the multiple interfaces between the layers, Geopearl $^{\circledR}$ pearlescent pigments provide unsurpassed performance in brightness and colour play.

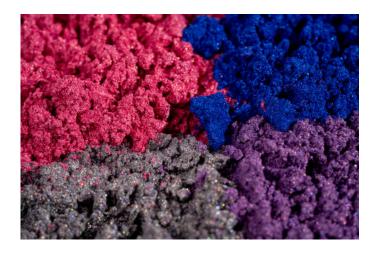
Product benefits

- Batch to batch consistency
- Wide product range with > 100 products
- Stability of the products in aqueous and solvent based systems
- In compliance with global regulations for printing applications

Recommended applications



- Screen Printing



Silver/White pigments

Art. Nr.	Product	Particle Size (µm)
1117000	Geopearl Soft Silver I	1 - 15
1117010	Geopearl Silk Silver I	5 - 25
1117020	Geopearl Silver I	10 - 60
1117050	Geopearl Bright Silver I	15 - 70
1117060	Geopearl Extra Bright Silver I	30 - 100
1117070	Geopearl Sparkling Silver I	20 - 150
1117072	Geopearl Glittering Silver I	20 - 250
1117090	Geopearl Twinkling Silver I	50 - 500
1117012	Geopearl Soft Silver RI	1 - 15
1013012	Geopearl Silk Silver RI	5 - 25
1117030	Geopearl Silver RI	10 - 60
1017041	Geopearl Bright Silver RI	15 - 70

Interference pigments

Art. Nr.	Product	Particle Size (µm)
1127405	Geopearl Silk Gold I	5 - 25
1127510	Geopearl Silk Red I	5 - 25
1127560	Geopearl Silk Violet I	5 - 25
1127610	Geopearl Silk Blue I	5 - 25
1127660	Geopearl Silk Green I	5 - 25
1127410	Geopearl Gold I	10 - 60
1127470	Geopearl Orange I	10 - 60
1127520	Geopearl Red I	10 - 60
1127710	Geopearl Fuchsia I	10 - 60

PRODUCT RANGE

Golden pigments

Art. Nr.	Product	Particle Size (µm)
1137100	Geopearl Silk Sun Gold I	5 - 25
1117110	Geopearl Silk Red Gold I	5 - 25
1117290	Geopearl Silk Royal Gold I	5 - 25
1117295	Geopearl Silk Olympic Gold I	5 - 25
1137135	Geopearl Majestic Gold I	10 - 60
1117280	Geopearl Solar Gold I	10 - 60
1117170	Geopearl Deep Gold I	10 - 60
1117285	Geopearl Ultra Gold I	10 - 60
1113170	Geopearl Sun Gold I	10 - 60
1137150	Geopearl Red Gold I	10 - 60
1137130	Geopearl Lemon Gold I	10 - 60
1127200	Geopearl Precious Gold I	10 - 60
1137121	Geopearl Bright Yellow Gold I	10 - 100
1137131	Geopearl Bright Lemon Gold I	10 - 130
1117133	Geopearl Sparkling Lemon Gold I	20 - 150

Metallic pigments

Art. Nr.	Product	Particle Size (μm)
1117300	Geopearl Silk Bronze I	5 - 25
1117350	Geopearl Silk Copper I	5 - 25
1117360	Geopearl Silk Russet I	5 - 25
1147310	Geopearl Bronze I	10 - 60
1147340	Geopearl Copper I	10 - 60
1147370	Geopearl Russet I	10 - 60
1147320	Geopearl Bright Bronze I	10 - 100
1117370	Geopearl Bright Copper I	10 - 100
1117380	Geopearl Bright Russet I	10 - 100



Colour travel pigments

Art. Nr.	Product	Particle Size (µm)
1118200	Geopearl CT Red to Gold	10 - 60
1118300	Geopearl CT Fuchsia to Gold	10 - 60
1118150	Geopearl CT Violet to Orange	10 - 60
1118250	Geopearl CT Blue to Red	10 - 60
1118100	Geopearl CT Green to Red	10 - 60

Order details

Available packaging

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

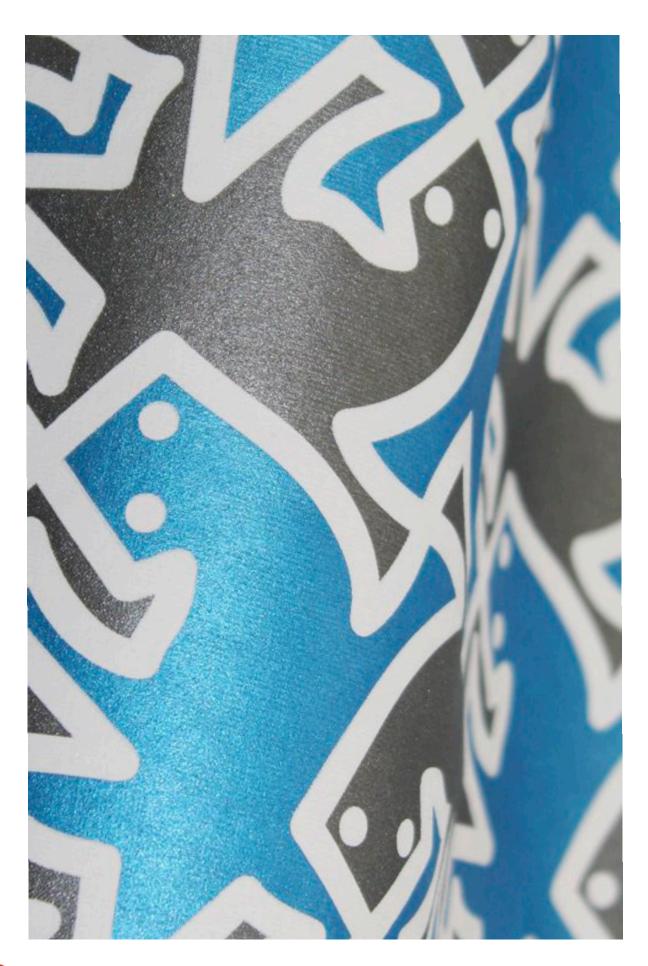
Shelf life

• 120 months 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/

FORMULATION GUIDELINES





GENERAL FORMULATION DO'S AND DON'TS

Avoid high shear or grinding

High shear and grinding can break the larger Geopearl[®] 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

Pearlescent pigments, like many inorganic pigments, have a tendency to settle in a paint formulation due to their high specific gravity. Therefor 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 pigmentparticles 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.

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 printing 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.









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 porfolio for the printing industry at www.geotech.nl





Geotech International B.V. info@geotech.nl +31 (0) 23 531 75 53 www.geotech.nl