



GEOTECH

SPECIAL EFFECT PIGMENTS

hello!  
you!



Geoparl®

PEARLESCENT PIGMENTS



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

Geoparl® pigments are used worldwide in printing applications.

The characteristic shimmer of Geoparl® 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, Geoparl® pearlescent pigments provide unsurpassed performance in brightness and colour play.

## Product benefits

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- 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

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- Screen Printing



## Silver/White pigments

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

## Interference pigments

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

## PRODUCT RANGE

### Golden pigments

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

### Metallic pigments

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

## Colour travel pigments

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





## GENERAL FORMULATION DO'S AND DON'TS

### **Avoid high shear or grinding**

High shear and grinding can break the larger Geoparl® 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. 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.



## 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. 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.

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### 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](http://www.geotech.nl)



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