



Imerys performance
mineral solutions
**for Industrial
Coatings**



IMERYS

Products for industrial applications

Industrial coatings bring protection to many different substrates like metals, plastics and wood exposed to extreme environmental conditions.

Imerys minerals provide solutions for corrosion resistance and enhance mechanical performances at excellent surface finish.

Imerys products also allow reducing the coating VOC content to meet the most stringent environmental requirements.



Type	Product	Application	Typical properties		
			Brightness ISO R457	D50* (µm)	OA (g / 100g)



Coil coatings

Hydrous kaolin	OptiGloss™ XD	Top coat – high gloss	89	0.2	40
	Polisperse™ 10	TiO ₂ extension	87	0.4	46
	Polisperse™ 20	TiO ₂ extension	85	0.7	42
Talc	JetFine® 1	Top coat – opacity	92^^	1.0	70**
Talc / Chlorite	SteaShield® 10	Primer – barrier, anti-corrosion	86^^	2.2	52**



Powder coatings

GCC	ImerCarb® 48	High gloss	94^^	2.1	19
	ImeXtend® 70S	High gloss, TiO ₂ extension	92^^	1.4	15
Calcined kaolin	PoleStar™ 400	High gloss, TiO ₂ extension	92	0.6	95
Wollastonite	NYAD® M1250	Anti-corrosion, high gloss	89^^^	4.0	27
	NYAD® M9000	Anti-corrosion, high gloss, TiO ₂ extension	91^^^	3.0	26

*Sedigraph ^Laser **mL/100g ^^Y-value ***Green filter ^^GE% of MgO

All technical data is provided for information only. It does not constitute a specification. Specifications are available on request.





Type	Product	Application	Typical properties		
			Brightness ISO R457	D50* (µm)	OA (g / 100g)



Marine & protective coatings

Leucophyllite	Plastorit® Micro	Barrier effect, film hardness	83 ^{^^}	5.4	31 ^{**}
	Plastorit® 000	Low VOC, anti-corrosion	81 ^{^^}	10.9	28 ^{**}
	Plastorit® 0000	Low VOC, anti-corrosion	82 ^{^^}	7.5	29 ^{**}
Talc	SteaShield® 50E	High loading, anti-corrosion	85 ^{^^}	9.8	25 ^{**}
	SteaShield® 60E	High loading, low VOC, anti-corrosion	78 ^{^^}	19.8	22 ^{**}
Talc / Chlorite	Luzenac 2	High loading, anti-corrosion	74 ^{^^}	9.3	36 ^{**}
	Luzenac 20MO	Anti-corrosion	83 ^{^^}	5.0	43 ^{**}
	Luzenac 20M2	Anti-corrosion	76 ^{^^}	5.0	43 ^{**}
	Steamas®	High loading, anti-corrosion	79 ^{^^}	14.1	32 ^{**}
	SteaShield® 10	High loading, anti-corrosion	86 ^{^^}	2.2	26 ^{**}
Wollastonite	NYAD® M325	Primer – anti-corrosion	87 ^{^^^}	12.0	22
	NYAD® M400	Primer – anti-corrosion, low VOC	87 ^{^^^}	9.0	24



General metal

Hydrous kaolin	Polisperse™ 10	TiO ₂ extension	87	0.4	46
Leucophyllite	Plastorit® Super	Anti-corrosion	84 ^{^^}	3.7	33 ^{**}
	Plastorit® Micro	Anti-corrosion	83 ^{^^}	5.4	31 ^{**}
	Plastorit® 10	TiO ₂ extension, top coats	84 ^{^^}	2.7	34
Mica	MU™ M2/1	Barrier effect	74	6.8	64 ^{**}
Talc	JetFine® 2	High brightness	92 ^{^^}	2.5	50 ^{**}
Talc / Chlorite	Luzenac 20M2	Primer – anti-corrosion	75 ^{^^}	5.0	43 ^{**}
Wollastonite	NYAD® M325	Anti-corrosion, mechanical properties	87 ^{^^^}	12.0	22

*Sedigraph ^Laser **mL/100g ^^Y-value ***Green filter ^^GE% of MgO

All technical data is provided for information only. It does not constitute a specification. Specifications are available on request.

TiO₂ ↓



Type	Product	Application	Typical properties		
			Brightness ISO R457	D50* (μm)	OA (g / 100g)



Automotive

GCC	PolCarb® 90	Sanding	86 [~]	1.0	20
	PolCarb® 32	Sanding	81 [~]	3.1	17
Hydrous kaolin	Hydrite® PXN	Edge protection	87	0.4	42
Talc	JetFine® 2	Sanding	92 [~]	2.3	50 ^{**}
	SteaShield® 60E	Sanding, high filling, high quality system	78 [~]	19.8	22 ^{**}
	SteaShield® 50E	Sanding, barrier effect	85 [~]	9.8	25 ^{**}
Talc / Chlorite	Luzenac 10MO	Sanding, barrier effect	83 [~]	3.0	48 ^{**}
	Luzenac 10M2	Sanding, barrier effect	76 [~]	3.0	48 ^{**}



Wood protection

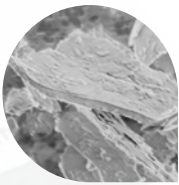
Hydrous kaolin	ImerCure™ X10	TiO ₂ extension, matting in UV clear coats	87	0.4	46
Perlite	ClearLite® 6	Clear coat & varnish high transparency, matting	81	6.0 [^]	62
Talc	JetFine® 2	Sanding, transparency, blocking effect	92 [~]	2.3	50 ^{**}

*Sedigraph ^Laser **mL/100g ^^Y-value ***Green filter ^^GE% of MgO

All technical data is provided for information only. It does not constitute a specification. Specifications are available on request.



Imerys mineral range for industrial coatings



Talc

Talc is a hydrated magnesium silicate, $Mg_3Si_4O_{10}(OH)_2$ water repellent, lamellar and inert. Talc is also the softest mineral on earth.



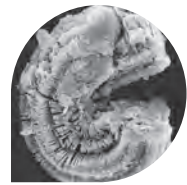
Low VOC



TiO₂ reduction



Anti-corrosion



Kaolin

Kaolin is a hydrated aluminum silicate crystalline mineral, $Al_2Si_2O_5(OH)_4$ formed by the hydrothermal decomposition of granite rocks. It is available as hydrous, calcined or in flash calcined forms.



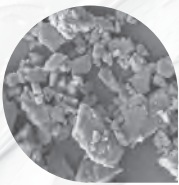
TiO₂ reduction



Rheology modifier



Gloss control



GCC & PCC

Ground Calcium Carbonates (GCC) occur in three principal forms: chalk, limestone and marble. **Precipitated Calcium Carbonate (PCC)**, in very pure crystal form, can be tailored to a variety of different shapes and sizes.



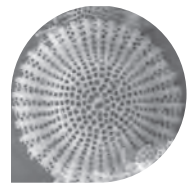
Brightness



TiO₂ reduction



Gloss control



Diatomaceous Earth (DE)

Diatomaceous Earth (DE) is a natural amorphous silica product, >90% SiO₂ consisting of a unique mix of fossilised aquatic plants. It is available in natural and flux calcined forms.



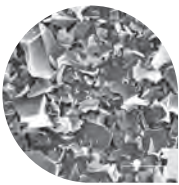
Matting



Abrasion resistance



TiO₂ reduction



Perlite

Perlite is a volcanic rock, a naturally amorphous aluminosilicate, with 70-75% SiO₂ and 12-15% Al₂O₃. It is selectively mined, expanded, milled and surface modified to provide a wide range of functionalities.



Matting



Transparency



Lightweighting



Mica

Mica is a natural highly lamellar mineral. Imerys offers **Muscovite**, a potassium aluminium silicate, and **Phlogopite**, a potassium / magnesium aluminium silicate, formed by the hydrothermal decomposition of granite rocks.



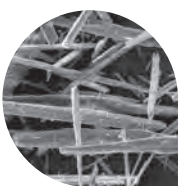
Barrier effect



Anti-corrosion



Adhesion



Wollastonite

Wollastonite is a naturally occurring calcium metasilicate CaSiO₃ mineral with an acicular particle shape.



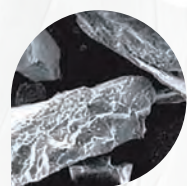
Anti-corrosion



Mechanical reinforcement



High gloss



Leucophyllite

Leucophyllite is a unique coalescence of mica, quartz and chlorite.



Film hardness



Abrasion resistance

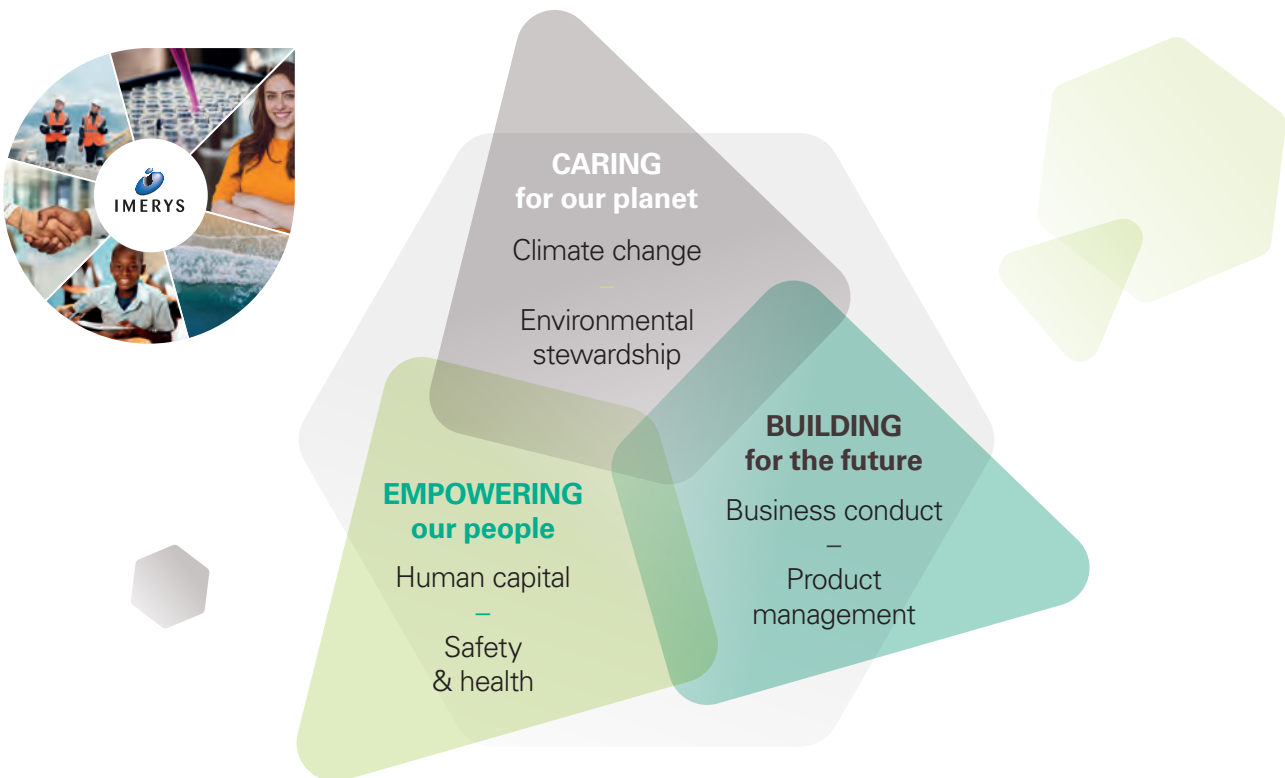


Binder reduction

Integrating sustainable development into all we do

At Imerys, we respect the world in which we operate. We are committed to our role in society, to meeting our obligations to the countries and communities in which we do business, as well as to acting as responsible environmental stewards.

Imerys is your partner for sustainable solutions



About Imerys

The world leader in mineral-based specialties for industry, Imerys delivers high value-added, functional solutions to a diversified set of industrial sectors, from processing industries to consumer goods. The Group draws on its knowledge of applications, technological expertise and its material science know-how to deliver solutions based on the beneficiation of its mineral resources, synthetic minerals, and formulations. These contribute essential properties to customers' products and performance, including refractoriness, hardness, conductivity, opacity, durability, purity, lightness, filtration, absorption and repellency. Imerys is determined to develop responsibly, in particular by fostering the emergence of environmentally friendly products and processes.

For more information:
imerys-performance-minerals.com

