



IMERYS

Imerys mineral solutions for **ETICS & Renders**

- Anti-cracking & anti-pinholing
- Sandability & workability
- Faster & early rain resistance



Anti-cracking & anti-pinholing

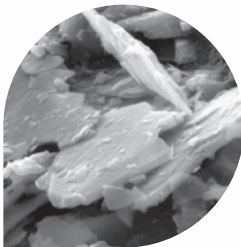
Imerys solutions prevent cracks and pinholes

Cracks and pinholes can especially occur

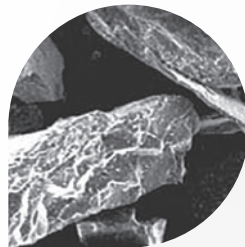
- when paints and plasters are applied with high film thicknesses
- with coarser plasters

Pinholes can occur between coarser particles due to capillary effects.
Cracks are caused by shrinkage during drying.

Highly lamellar minerals help to reduce cracking and shrinkage.
Low water demand particularly helps reduce shrinkage.



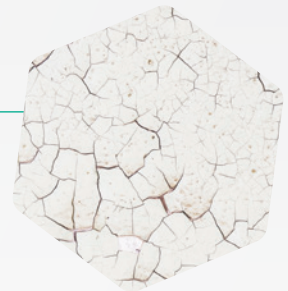
Talc



Leucophyllite



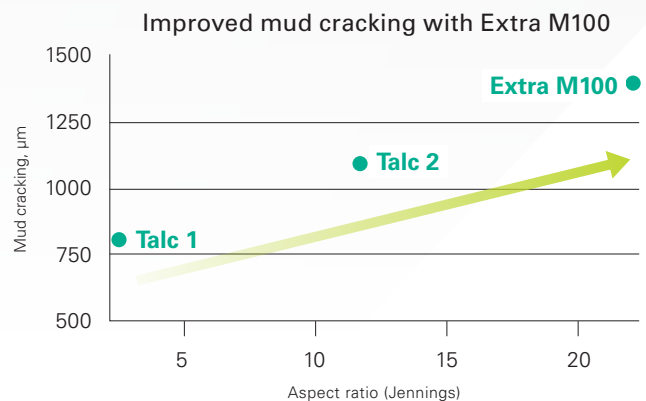
Mica



Extra M100 – Coarse macro-lamellar talc with high aspect ratio

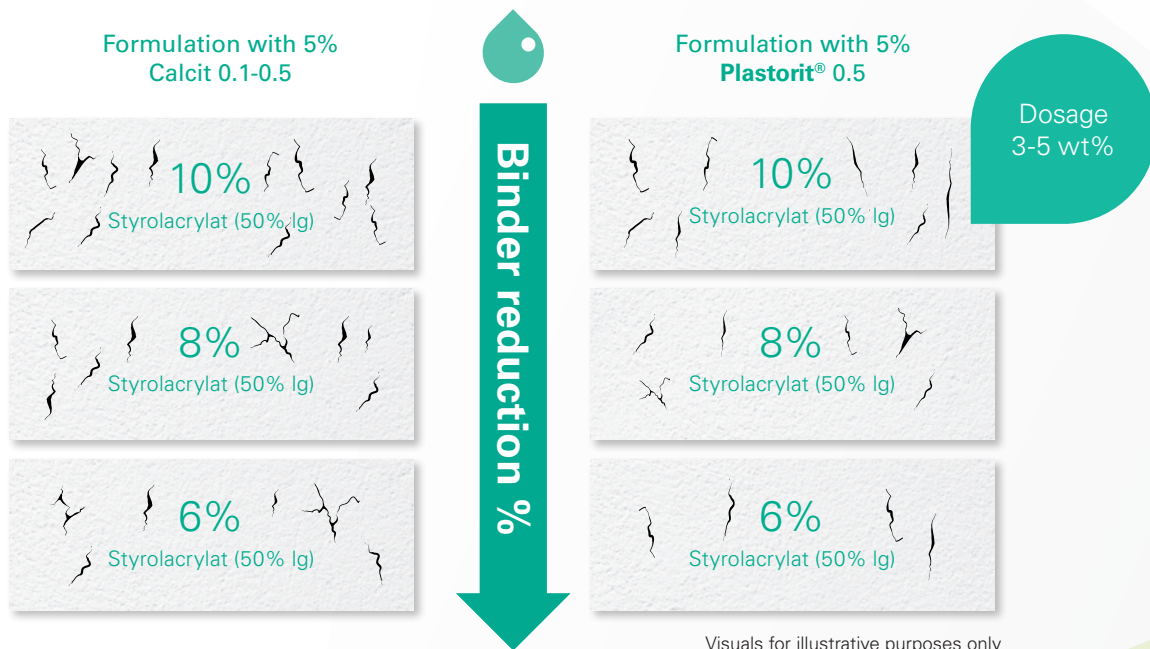
Platy particles with high aspect ratio reduce the risk of crack formation.

Paint components (wt%)	
Water & additives	32.5
TiO ₂ – Rutile	17.0
GCC	15.0
Talc (5.0µm)	13.0
Talc	10.0
VA copolymer, MFT OC, 53%	12.5
TOTAL	100
PVK (%)	75.7
Density (g/ml)	1.66





Plastorit® – Improved applicability and reduced cracking properties



Plastorit® – 3-component mineral A natural coalescence of lamellar minerals



Mica

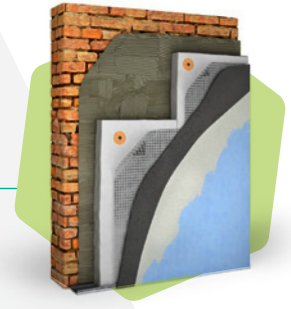
- Elastic lamellar structure
- UV reflecting
- High temperature resistant
- Hardness: 2

Chlorite

- Lamellar structure
- Hydrophobic
- High temperature resistant
- Hardness: 2

Quartz

- Blocky particle shape
- Easy dispersion
- High temperature resistant
- Hardness: 7



PlastGard® 80 – Engineered perlite solution for interior and exterior applications

- For resin based plasters and renders, including EIFS/ETICS
- For interior and exterior uses
- For textured or smooth formulations
- Compatible in all resin systems
- Excellent crack resistance
- Excellent pinholing resistance
- Low addition levels

Pinhole and cracking performance

At addition rates between 2 and 5 wt%, the engineered particle size and shape of **PlastGard®** reinforce the system structure, prevent cracking and pinhole formation during the drying process.

Functional filler	Pinholing*	Cracking*
PlastGard® 80	1	1
Calcium carbonate	4	2

*Results are based on the number of cracks and pinholes over a specified area. Cracks and pinholes occurrence levels are expressed between 0 (none) and 5 (severe).



Figure 1.
Without **PlastGard®**
– Pinholing

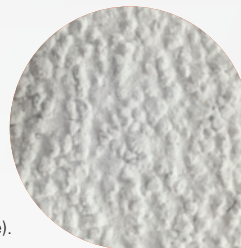


Figure 2.
With **PlastGard®**
– No pinholing

Sandability & workability

Imerys talcs for a perfect finish

Preparing walls before painting is essential to achieving a perfect finish. Sanding down the walls ensure the surface is free from any imperfections such as splashed plaster and grit.

Imerys talc products **Extra M100**, **SteaShield® 40E** and **Luzenac H100** improve surface finish for excellent results and easy sandability.



Faster drying & early rain resistance



Improved weather durability

Exalt® is a calcium aluminate cement (CAC) in a water-based slurry form. **Exalt®** suspensions make it possible to harness aluminate hydraulic performance in organic polymer systems to:

- Shorten curing, drying and hardening times
- Widen the application window to include cold and humid conditions
- Enhance adhesion and mechanical strength
- Promote superior aesthetics

Key benefits:

- Liquid and stable long term
- Usable from powdered dry mix mortars
- Confers CAC technology benefits to water-based coatings and renders
- Pumpable and easy to use
- Unique (patented technology)



Our portfolio for ETICS & Renders

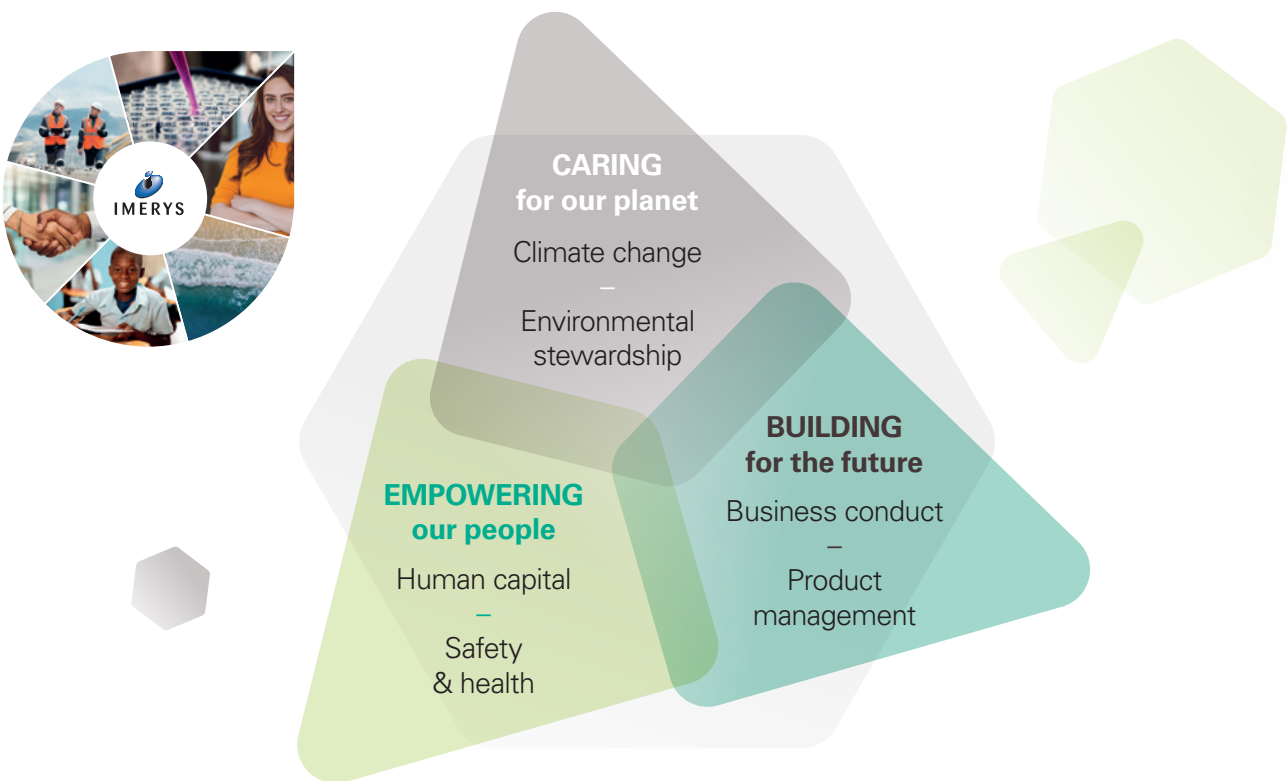
Type	Product	Application	Typical properties		
			Whiteness Y	d50* (µm)	OA (ml / 100g)
Mica	MU™ 101	Crack & pinhole prevention, workability	75	13	70
	MU™ 247	Crack & pinhole prevention, workability	67	109	60
	MU™ 454	Crack & pinhole prevention, workability	62	219	48
Perlite	PlastGard® 80	Crack & pinhole prevention, workability	White	30^	150
Flux Calcined DE	Celite® 281BL	Crack & pinhole prevention	94^^	17	130**
Leucophyllite	Plastorit® 000	Anti-cracking in plasters <1mm	81	10.9	28
	Plastorit® 00	Anti-cracking in plasters <1mm	80	14.2	27
	Plastorit® 0	Anti-cracking in plasters <1mm	79	17.8	26
	Plastorit® 0.25	Anti-cracking in plasters >1mm, binder reduction	70	N/A	N/A
	Plastorit® 0.5	Anti-cracking in plasters >1mm, binder reduction	58	N/A	N/A
	Eco-Phyl®	Crack & pinhole prevention, binder reduction	77	20	N/A
Talc	Extra M100	Anti-cracking & sandability	85	19.8	35
	SteaShield® 40E	Anti-cracking & sandability	87	7.2	33
	SteaShield® 50E	Anti-cracking & sandability	85	9.8	25
	SteaShield® 60E	Anti-cracking & sandability	78	19.8	22
Talc / Chlorite	Luzenac H100	Anti-cracking & sandability	63	22.8	28
	Luzenac 0	Anti-cracking & sandability	80	9.4	36
	Luzenac 2	Anti-cracking & sandability	74	9.3	36
	Luzenac 20M0	Anti-cracking	81	5.0	43

* Sedigraph ^Laser ** g/100g ^^Brightness ISO R457

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.

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