Construction

Omyamatt

Efficient Matting Solutions for Water-Based Paints
Non-silica based for hazard-free labelling

THINKING OF TOMORROW

Omyamatt

Sustainability is key to our future success

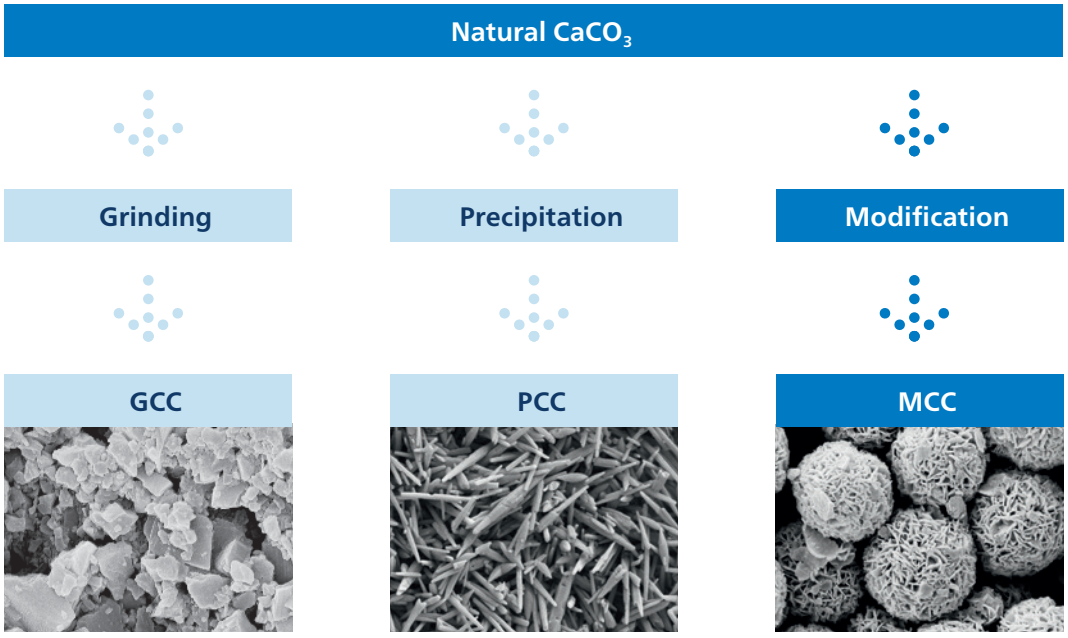
- ✓ Driven by our vision and our strong value-led corporate culture, we take on our role as a partner for a sustainable future. We understand the importance of our actions and our responsibility towards nature and society. At Omya, we take a full life-cycle perspective of our products and services and their contribution to society.
- ✓ **Using non-silica based Omyamatt can improve health and safety aspects for the final paint and paint production.**
- ✓ Using **renewable electricity** during processing reduces CO_2 emissions of Omyamatt production.

Latest generation of Modified Calcium Carbonates (MCC) provide highly effective matting properties

Unique golf ball shaped particles offer a safe and sustainable alternative to conventional matting agents, promoting healthier working conditions.

Omyamatt is obtained from **a patented process starting from a natural Calcium Carbonate** that undergoes a recrystalization process using inorganic salts. This creates a functional outer structure featuring unique properties in terms of:

- **Particle size distribution**
- **Particle porosity**
- **Specific surface area**
- **Particle structure**



The High-Performing, Hazard-free Alternative

By using Omyamatt, paint producers will **benefit from matting** efficiency and support **high opacity** compared to alternative solutions. **Higher brightness** and **lower yellowness** are also attainable.

Product properties

Physical properties[1]	**Omyamatt 100**	**Omyamatt 75**
Median partical size (d50%)	25 µm	18 µm
Top cut (d98%)	60 µm	45 µm
Brightness Ry (C/2°, DIN 53163)	95 %	95 %
Oil absorption (ISO 787-5)	45 g/100 g	45 g/100 g

[1] *Indicative values*

Omyamatt Efficiency at Low-mid PVC Levels

Content (%)	**Standard reference formulation**	**Omyamatt 100 mid-PVC paint**	**Omyamatt 100 low-PVC paint**
Water & Additives	23	23	22
Acrylic Binder, 46 % solids content	40	40	46
Titanium Dioxide	15	15	15
Omyacarb Extra	18	12	7
Calcined Clay	4	4	4
Omyamatt 100	**0**	**6**	**6**
Total	100	100	100
PVC [%]	**42.5**	**42.5**	**35.2**
Contrast ratio, 150 µm gap [%]	94.9	94.9	95.2
Gloss 60°, 150 µm gap [GU]	16	1.9	2
Sheen 85°, 150 µm gap [GU]	**27**	**1.8**	**2.1**

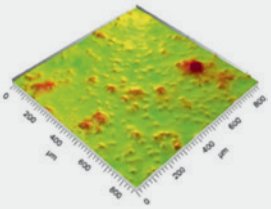
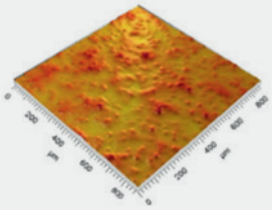
This engineered (vs mined) solution provides **supply reliability** and **quality consistency**. The good flowability of Omyamatt **facilitates operations for paint production**.

Low gloss values at low PVC can be achieved with Omyamatt.

It is recommended to add this product before or at the let-down stage of paint production, **avoiding high-shear forces.**

Smoother surface using Omyamatt 75 vs Omyamatt 100. The resulting surface roughness and waviness characteristics are lower.

Your Option – Different Surface Touch Levels

	Omyamatt 100	Omyamatt 75
		
Roughness level:	~1.9 µm	~<1.8 µm
Waviness level:	3.5 µm	~<2.5 µm
Matting level:	Dead-matt, matt	Dead-matt, matt
PSD:	d50% 25 µm, d98% 60 µm	d50% 18 µm, d98% 45 µm

Benefits

- ✓ High matting efficiency
- ✓ Supports opacity and stain resistance
- ✓ High whiteness, low yellowness
- ✓ Harmless to health (non-silica based)
- ✓ Enables classification of end products as non-harmful
- ✓ High-quality consistency
- ✓ Supply reliability / sourcing advantage
- ✓ Easier and safer use in production
- ✓ Outstanding bulk flow for easy Handling
- ✓ Low abrasion – less wear

Health & Safety for Decorative Paints

Using non-silica based Omyamatt can **improve health and safety aspects** for the final paint and its production.

Composition (by weight in %)

	Flux Calcined Diatomaceous Earth		Omyamatt 100	
Water & Additives	31		31	
Rutile Titanium Dioxide (TiO_2)	14		14	
Omyacarb® Extra, $CaCO_3$ 0.9 µm	20		20	
Omyacarb® 2, $CaCO_3$ 2.5 µm	12		12	
Matting Agent	**5**	contains **(Respirable) Crystalline Silica** 	**5**	**(Respirable) Crystalline Silica < 0.1 %**
VAE Binder, 53% solids content	18		18	
Total	**100**		**100**	

Paint properties

PVC [%]	**68.0**	**68.0**
Ry over black / Ry over white, 150 µm gap [%]	89.6 / 92.0	90.2 / 92.4
Contrast Ratio, 150 µm gap [%]	97.4	97.6
Sheen 85°, 150 µm gap [GU]	**3.2**	**3.5**

Enables to **classify** the final paint **as non-harmful**

Omya Technical Support & Expertise

We **provide** technical **support** to customers **worldwide** to facilitate the incorporation of Omyamatt into your product formulation and to **achieve the related benefits**.

- **Technical Expertise**
- **Application Trials and Support**
- **High-End Analytical Techniques**
- **Regulatory Affairs Support**

Global Supply Reliability

Benefits

- ✓ Dedicated production line in Norway
- ✓ Marble-based $CaCO_3$ at product start
- ✓ Non-seasonal, continuous production
- ✓ Ensured logistics and strong supply chain
- ✓ Regional warehouses all around the world

Source: Omya International (2025/06)

omya.com