



# Omyamatt® 100

Modified Calcium Carbonate as  
matting agent for emulsion paints



THINKING OF TOMORROW

# Omyamatt® 100

The latest generation of modified Calcium Carbonate (MCC) provides highly effective matting properties

The highly optimized design of particle shape and surface structure as well as the controlled particle size distribution and large specific surface area make Omyamatt® 100 a powerful tool and efficient alternative to conventional matting agents. The unique "Golfball" shaped particle is made of a Calcium Carbonate core from natural, high purity and consistent quality source and a Hydroxyapatite shell providing the functional outer structure.

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## Benefits

- *High matting efficiency*
- *Color tinting not affected*
- *Silica-free*
- *Eco-friendly alternative to conventional matting agents*

### Physical properties

<b>Top cut (d98%)</b>	60 µm
<b>Brightness Ry (C/2°, DIN 53163)</b>	95 %
<b>Oil absorption (ISO 787-5)</b>	45 g/100 g
<b>Apparent density, loose (Omya LTM 001)</b>	0.35 g/ml



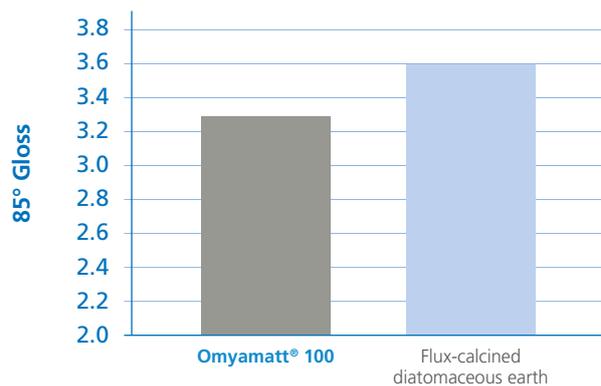


## Application

Testformulation: PVC = 70 %	Flux-calcined diatomaceous earth	Omyamatt® 100
<b>Water &amp; additives</b>	37.3	37.3
<b>Fillers</b>	39.7	39.7
<b>Matting agent</b>	7.0	7.0
<b>Emulsion, binder, 50 %</b>	16.0	16.0
<b>Total</b>	100	100

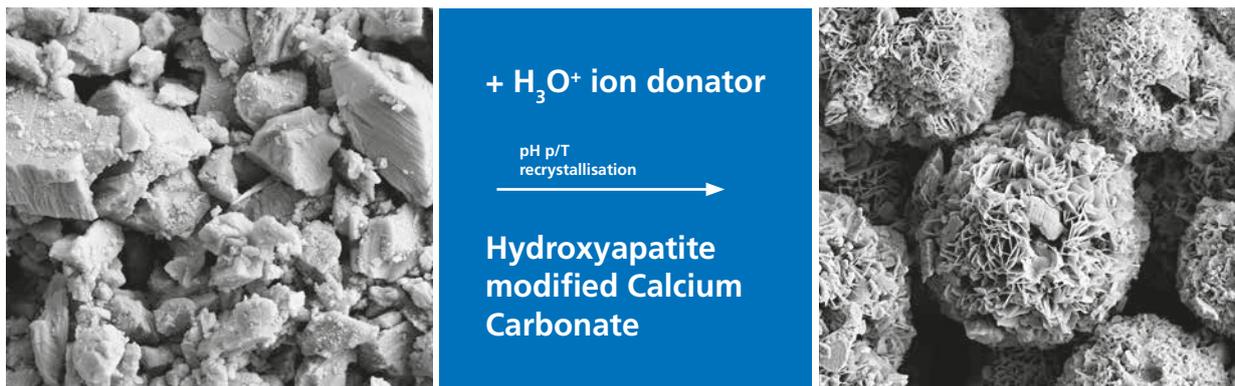
Testformulation: PVC = 70 %	Flux-calcined diatomaceous earth	Omyamatt® 100
<b>Ry white (gap height 150 µm) [%]</b>	88.1	88.3
<b>Contrast ratio (gap height 150 µm) [%]</b>	90.1	93
<b>Gloss 85°</b>	3.6	3.3
<b>Viscosity ICI (D = 10'000s<sup>-1</sup>) Spindle C</b>	190	210
<b>Viscosity (Paar Physica PP 25) D = 10s<sup>-1</sup>, t = 1 min</b>	4'577	5'788

### Interior emulsion paint formulation

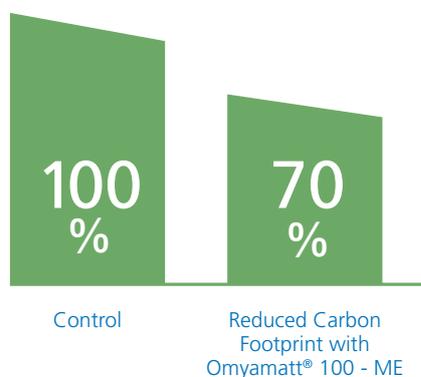


# Modification of Ground Calcium Carbonate

From GCC to MCC



*Omyamatt® 100 - ME has a 30% lower Carbon Footprint (CF) than flux-calcined diatomaceous earth and 36% lower CF than crushed expanded perlite.*



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