Polymeric hiding technologies
Product selector guide

ROPAQUE™ Opaque Polymers and EVOQUE™ Pre-Composite Polymers offer novel routes to improved hiding efficiency, TiO_2 reduction, formulation cost savings and/or paint performance improvements. Both are major hiding technology breakthroughs that also offer key sustainability improvements as demonstrated by a third-party validated Life Cycle Assessment.

How They Work

- ROPAQUE Opaque Polymer is a synthetic hollow-sphere pigment that independently scatters light and offers partial replacement of higher cost titanium dioxide (TiO_2).
- EVOQUE Pre-Composite Polymer is an advanced binder technology that helps to improve the light scattering efficiency of TiO_2 by improving the uniformity of TiO_2 particle distribution.
- Both technologies offer equal or improved hiding with up to 20% less TiO_2 or higher hiding at equal TiO_2.

Additive Improvement

In many paint formulations, EVOQUE and ROPAQUE Polymers may be used in tandem to achieve additive improvement in TiO_2 efficiency and even higher TiO_2 savings. In addition, EVOQUE Pre-Composite Polymers offer improvements in paint performance properties such as stain resistance and removal, dirt pick-up resistance, tint retention, tannin stain blocking and corrosion resistance.

Features and benefits

Evoque™ Pre-Composite Polymer

- 100% acrylic binder
- Increases wet and dry hiding efficiency
- Facilitates hiding improvement and/or TiO_2 reduction
- Low-VOC capable
- Works in tandem with ROPAQUE™ Opaque Polymers for additive hiding improvement or TiO_2 reduction

Ropaque™ Opaque Polymer

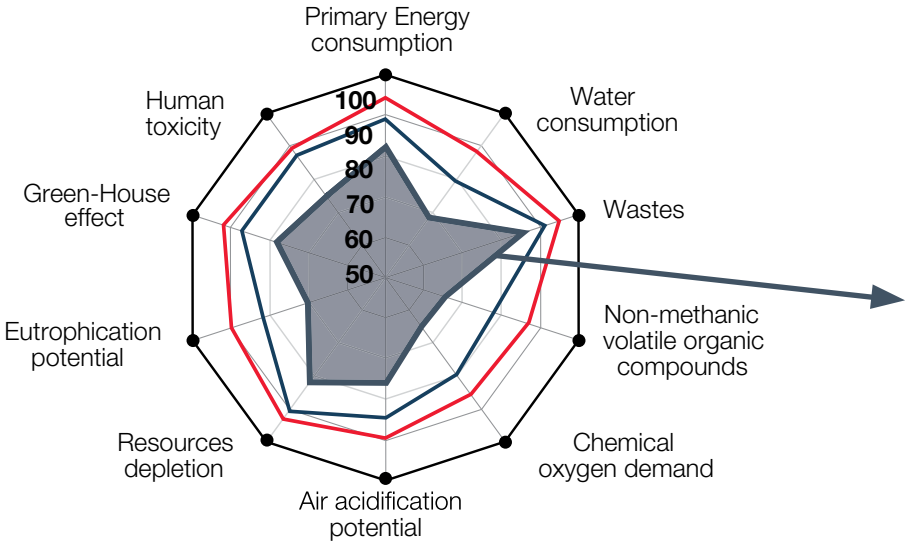
- Polymeric light-scattering pigment
- Replaces up to 20% of TiO_2
- Facilitates equal hiding and tint strength at lower cost
- Works in tandem with EVOQUE™ Pre-Composite Polymers for additive hiding improvement or TiO_2 reduction

Product	Type	Solids %	MFFT (°C)	APEO free*	Interior	Exterior	High gloss	Semi-gloss	Satin	Flat	Interior paint and primer	Exterior paint and primer	Primer	Description
Pre-composite polymers														
EVOQUE 1133	100% Acrylic	46.5	~0	Y	✓	✓		●●	●●	●●		●	●	Pre-composite binder technology that offers improvements in TiO_2 efficiency. Excellent exterior primer-like properties.
EVOQUE 1180	100% Acrylic	46.0	~13	Y	✓	✓	●●	●	●	●	●	●	●	Ambient crosslinking pre-composite binder technology that offers improvements in TiO_2 efficiency. Also offers improved primer-like properties and improved hardness for ultimate block and DPUR.
Opaque polymers														
ROPAQUE OP-96	Synthetic opacifying polymer	30.5	n/a	N	✓	✓		●	●	●	●	●	●	A non-film-forming synthetic hollow-sphere pigment engineered to help improve the economics of interior or exterior waterborne coatings.
ROPAQUE Ultra	Synthetic opacifying polymer	30.0	n/a	Y	✓	✓		●	●●	●●	●●	●●	●●	A non-film-forming synthetic hollow-sphere pigment offering increased light scattering efficiency.
ROPAQUE Ultra EF	Synthetic opacifying polymer	30.0	n/a	Y	✓	✓		●	●●	●●	●●	●●	●●	A non-film-forming synthetic hollow-sphere pigment offering increased light scattering efficiency in addition to a lower odor profile.

Properties are typical but not to be construed as specifications. *Manufactured without APEO surfactant.

Sustainable improvement

Titanium dioxide is a large contributor to carbon footprint and other environmental impacts of architectural paint. By facilitating quality acrylic paint with less TiO_2, EVOQUE™ and ROPAQUE™ Polymer Technologies help to reduce paint's environmental impact.



Impact Assessment*– ISO 14040-14044

Improvement in 10 out of 10 categories.

- Control
- Opaque Polymer
- EVOQUE Pre-Composite Polymer
- EVOQUE Pre-Composite Polymer and ROPAQUE Opaque Polymer

* 30 PVC Interior Semi-Gloss Acrylic Paint

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