

ENOVA[®] AEROGEL

FOR MATTE FINISH

COATINGS FORMULATIONS

Enova aerogel is an innovative fine particle silica-based aerogel, highly treated to create a hydrophobic material with an extremely large surface area. Combined with its high porosity and complete treatment, its unique chemistry makes Enova aerogel an ideal solution for a variety of low gloss and light diffusion formulations, including 100% UV-curable systems. As a global leader providing solutions for over 130 years, Cabot partners with customers to deliver advanced products that address tomorrow's challenges.

Enova aerogel provides a wide range of benefits for matte finish coatings:

- Unmatched compatibility with resins and solvents
 - Standard incorporation methods
 - Superior dispersion uniformity
 - High transparency, clarity
 - Greater formulation flexibility
- Highly efficient matting at exceptionally low loading (<3%)
 - Reduced coating formulation cost
 - Increased freedom to incorporate other performance additives
 - No anti-settling additives needed
- Long coating lifetime in exterior applications
- Minimal moisture adsorption
- Long storage shelf life
- Limitless application possibilities
- Enables reduced-VOC formulations
- Waterborne dispersion for matting
 - Outstanding coat clarity
 - Gloss below 10 at 20 degrees and 20 at 60 degrees
 - Maintaining a workable viscosity
 - Reducing incorporation time

Enova aerogel delivers substantial performance advantages in matting applications:

- Advanced rheology modification
- Enhanced oil absorption
- Extreme hydrophobicity
- High porosity
- Unmatched light diffusion
- Improved water and chemical resistance

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Enova aerogel represents a new class of hydrophobic silica particles distinguished by:

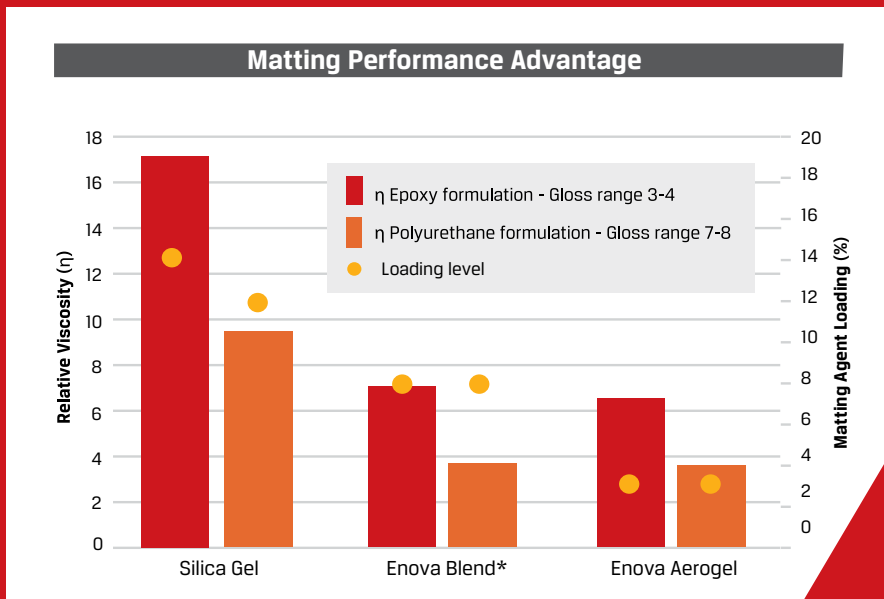
- Porosity - 2-4x higher than traditional silicas
- Surface area - 2-5x higher than traditional silicas
- Surface chemistry
- Morphology
- Coating clarity

Unique combinations of these characteristics create opportunities to improve performance in a variety of coatings applications.

Silica Blending

Certain formulations will benefit from a blending of Enova aerogel with other silica-based matting agents or waxes, often in a 1:3 to 1:5 ratio.

Contact us for more information including specific coatings formulations.



* Measurement method:

- Coating thickness 1mil
- Gloss measured at 60° with micro-TRI-gloss meter
- Viscosity measured with TA instruments AR2000ex rheometer at 1/10s shear rate, 4mm plate
- Enova blend is a mix of Enova aerogel and silica gel

Exclusive Attributes

| | |
|--------------------------|---------------------------|
| PARTICLE SIZE | 7-11 microns (d50) |
| SURFACE AREA | 700-800 m ² /g |
| TAP DENSITY | 30-45 kg/m ³ |
| SURFACE TREATMENT | >99% surface coverage |



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