



Technical Data Sheet

Oct. 19th, 2020

C-THIX 100

(Fumed Silica)

Description:

- Extremely efficient in Thixotropy and Thickening of many complex polar resins such as ones based on Polyurethane, vinylester, and especially epoxy.
- Guaranteed hydrophobia because of the silicone oil treatment.
- The slight oily effect of the treatment adds benefits in a variety of printing processes.
- Increases efficiency of the water resistance for moisture sensitive formulation, for example in cosmetics.
- Improvement of anti-sagging in epoxy adhesives, coatings, and anti-settling behaviour of pigments.
- Because this hydrophobized, small particle silica has great electrical insulating abilities and low water absorption, it can easily acquire and conserve electrical charge. It's typically used as a surface additive for toner for improvement of flowability and increasing charge.
- With silicone oil treatment, C-THIX offers individualized surface treatment.
- C-THIX is very effective for achieving a high tribo-charge due to its high hydrophobicity.
- Additionally C-thix makes good flowability.

Applications:

- Thixotropy and thickening agent in adhesives and sealants for fiber optic cables
- Thixotropy and thickening agent for epoxy and vinylester resins and gelcoats
- Thixotropy and thickening agent for cable gels, cosmetics, and lubricants
- Creates an environment for achieving high tribo-charge
- Anti-sedimentation aid for fillers, such as quartz powder and chalk
- Suitable additive for anti-corrosion systems
- Booster silica for defoamers products
- Increases flowability of powders

Properties:

Properties	Unit	Value
Specific Surface Area (BET)	M ² /g	80-120
pH Value In 4% dispersion		4.0/6.0
Loss on Drying 2 hours at 105°C	%	≤ 0.5
C-content	%	3.5 - 5.0
Tamped density ISO 787-11, modified	g/l	Approx. 60
SiO ₂ Content Based on ignited material	%	≥ 99.8

Directions: If the viscosity of our epoxy (mixed resin and hardener) is not suitable for your application, you can add up to 3-4% (depending on the Thixotropy needed) to the resin prior to mixing with hardener.

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