

FluorN-S83

FluorN-S83 is an additive used to reduce the surface tension of oil-based paints and to improve ice repellency. S83 also improves leveling properties, water and oil repellency of dried films. In some applications S83 reduces craters, pinholes, and orange peel in solvent-based paints. FluorN-S83 is typically used at 5% weight of the solvent-based paint.

The FluorN-S83 is synthesized at Cytonix. FluorN-S83 is available internationally by calling or emailing Cytonix. For contact angle measurements a drop of distilled water or mineral oil was placed on coated glass microscope slides and imaged using a low magnification microscope. Each drop was illuminated from behind to obtain a good image for drop image analysis.



Table 1: Solution Properties

Property	
Concentration	35 - 40% Solids
Color	Light Yellow
Clarity	Clear
Density	~0.98 g/ml
Flammability	Flammable
Flash point	~30°C
Solvents	Butyl Acetate, Acetone, MEK, Isopar-H, odorless mineral spirits
Shelf life	1 year

Table 2: FluorN-S83 additive and its influence on contact angles

	Water contact angle	Mineral oil contact angle
Paint A only	88°	20°
Paint A + 5% S83	100°	65°
Paint B only	90°	22°
Paint B + 5% S83	108°	70°

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