Norcote Technical Bulletin

939 Security & Optical Brightener Additive

Introduction:

The 939 is a heat resistant additive that can be used in any Norcote ink to provide security tracer or watermark visible under a black light or other UV emitting light source. This is created by absorbing UV light, modifying the wavelength of the light and then emitting the light in the fluorescent fashion.

Material Description:

Security & optical brightener additive

Recommended level:

Add to ink at .2-1% by weight

Physical Properties:

Appearance:	Liquid
Color:	Light green
Odor:	Mild
Specific gravity:	9.0
Viscosity:	2,000-5,000 cps

Storage Conditions:

Do not expose to direct sunlight. Store at room temperature between 5˚C and 25˚C. Avoid contact with alkaline additives and water. Store the product in original, tightly closed containers under the above mentioned conditions.

Safety & Handling:

The 939 additive should be handled in accordance with good industrial practice. Detailed information is provided in the Material Safety Data Sheet (MSDS).

The 939 additive is thixotropic by nature and therefore the viscosity may vary towards the lower of the specification as the product is allowed to sit. Thorough mixing before use is suggested to insure product consistency. Due to the low addition rate suggested, there will be no negative effect on the overall viscosity of the finished coating.

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