

Product Data Sheet

5050 UV HIGH GLOSS TOPCOAT

Description of 5050

5050 is a solvent-free, UV curable topcoat. This product exhibits excellent adhesion to paper, and most treated film stocks. It exhibits great wet out, and can be run at very high press speeds. The result is very high gloss with excellent slip and scuff resistant properties.

Typical Properties

Properties	Typical Values
Viscosity (cps@ 77F)	300 – 340
Cure Speed (one 300W/in Hg Lamp)	425 – 475 ft/min
Scuff Resistance (Sutherland)	750+ Rubs (4# face to face)
Mileage (Expected)	10,700 ft ² /Gal @ 0.15 mil thickness
Gloss (60 degree)	85+
Solvent and Water Resistance	Moderate
Appearance	Slightly amber liquid

Application Suggestions

A 360 lpi 5 BCM anilox roll is suggested for flexo applications. For rollcoat applications, a coating weight of 0.2 mils is recommended. It is also recommended that the surface of polyester and polypropylene films are treated before application of the topcoat to help insure good crosshatch tape adhesion. Also for proper inter-coat adhesion, try to avoid using any inks that may contain wax or silicone additives. Any non-lightfast inks, should be tested for compatibility with topcoats or laminating adhesive prior to running production on press.

QC Procedures and Suggestions

To achieve maximum properties, sufficient cure of 5050 is necessary. A simple MEK rub test can help insure that the product is properly cured. Please consult our technical staff for the proper way to perform cure tests for each given press condition and application weight of the UV product.

Storage and Handling

5050 should be stored away from heat, flame and should not be exposed to any direct light source. Otherwise, premature cure or gel could occur. Shelf life of 6 months from the date of manufacture is expected when stored properly. Isopropyl alcohol, acetone, and/or MEK are all good solvents for clean up of 5050. Proper personal protection (gloves, goggles) and proper ventilation are required when handling this material. Please consult MSDS for details on proper handling of this material.

Disclaimer: The information on this data sheet is believed to be accurate and reliable. It is, however, the users' responsibility to determine suitability of the use for an application. MinusNine only warrants that this material meets the product specifications and makes no warranties concerning the suitability of this product for a particular use or purpose.