

APV'S OUTDOOR VINYL TOPCOATS

Barrier Properties

SELF CLEANING

It has been found that the barrier properties and unique surface energy of this coating formulation allows wind and rain to purge environmental debris from the surface. The result is a "self cleaning" and stain resistant product that requires no maintenance.

BACKLIT LAMINATES

To achieve maximum cosmetic service life, both sides of vinyl laminates, designed for backlit applications, should be coated. Surface deterioration due to plasticizer migration and/or biological activity on the back side of a translucent laminate will be visible upon backlighting.

HEAT SEALING

Heat sealing with hot air sealers requires an increase in air temperature. If air temperature is set at 850°F for uncoated vinyl, then increase it to 950°F for coated vinyl. Ratio Frequency (RF) sealers require either an increase in dwell time or a higher frequency.

APPLICATION and STORAGE

This solvent-based coating can be ordered as a concentrate or print ready. The standard gravure-ready version is supplied in MEK at a Zahn #2 viscosity of 20 seconds. All versions have excellent flow and leveling properties. A 5 micron gravure pad coat (100% coverage) can easily be achieved, and provides an excellent barrier. Pigmented versions serve as an outdoor, weatherable ink.

More Information

Various solvent systems are available. The HAPS free, EPA compliant solvent blend (<4.8 pounds VOC per gallon) will allow vinyl coating lines to be operated without solvent recovery or incinerator systems, i.e., solvent fumes can be vented directly into the atmosphere. Flammability is an issue that must be addressed in all versions. (Hazard Class 3/Packing Group 11).

Sealed containers, that prevent solvent evaporation, may be stored for many years. Viscosity will increase over time. The increase in viscosity depends on the storage temperature and the solvent system used. Low temperature storage will accelerate viscosity gain. Mixing with sufficient energy will restore the original viscosity if the % solids are within specification.

