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APOLLO SCREEN PHOSPHORESCENT INKS

Screen Phosphorescent inks contain optically active pigments which absorb energy from incident light and re-emits it as light, after the incident light is removed. The length of time for which this is visible depends on the ink type, and previous exposure time.

Apollo produce three main types of phosphorescent ink:

Standard long afterglow yellow/green:	emission time up to 15 minutes
Extra Long afterglow yellow/green:	emission time up to 10 hours
Quick charge long afterglow yellow/green:	emission time up to 10 hours

Quick charge inks are not as intense afterglow as Extra Long Afterglow.

Standard long afterglow inks can also be produced to special order in Orange, Yellow, and Blue/Green. Phosphorescent inks can be produced for printing most plastics and paper.

PRINTING & MILEAGE: In general the particle size of this type of pigment is 4 – 6 times as large as those used in conventional screen inks. It is therefore necessary to use meshes 43T or coarser. High durability photostencils are recommended for printing these inks.

THINNERS: Depending on ink type.

DRYING: Depending on ink type.

COLOURS: Inks with the following after-glow colours are available: Yellow/Green, and Orange, Yellow, Blue/Green to special order.

USES: Security and safety marking. May be used to trigger electric circuits. Safety Signs.

GENERAL INFORMATION

Phosphorescent inks are based on inorganic compounds with optically active dopants. Because of their inorganic nature they have excellent stability, resistance to heat, light and chemical attack. These inks are not radioactive but use incident light as a source of energy. They may be charged by daylight, ultra violet light or artificial light.

The emission time is directly dependent on the previous exposure time. Standard long afterglow inks charge in a few seconds in bright daylight but longer in artificial light. Extra Long afterglow inks take much longer to charge but their afterglow is much longer. Quick charge inks will charge quicker but the intensity of after-glow diminishes quicker than the extra-long version.

Emissions diminish exponentially once the irradiating source is removed.