



spectraCRYPT®

Series SC-P/051



SC-P/051 is a Bi - Luminescent Pigment that upon exposure to UV-light is excited to a higher energy state and then returns to the ground state by emission of a photon of the visible spectral range. For excitation SC-D-UV/005 Long wave UV-Lamp ($\lambda = 365 \text{ nm}$) and SC-D-UV/006, Short wave UV-Lamp ($\lambda = 254 \text{ nm}$) can be used. The pigment will emit a vibrant red light upon exposure to 254 nm and blue light by use of the lamp with 365 nm emission wavelength. SC-P/051 is especially suitable for overprint varnishes and printing inks, including UV, solvent and water-based formulas. SC-P/051 is recommended for security applications.



USE

Application Plastic, such as PVC, S, ABS, PE, PP, paint, printing ink



RATIO, PROCESSING AND MESH

Ratio A bright luminescence can be achieved by using 20 % of the pigment in the ink or varnish basis.

Processing The ink binder to be selected must be transparent at the UV wavelengths selected for detection. Mild dispersion methods are suggested. Note that strong milling should be avoided since the pigments themselves may be destroyed.

Mesh 77-55 Y PW PET 1000



VARIOUS

Safety and stock In accordance with good industrial practice, handle with care and prevent contamination of the environment. Avoid dust formation and ensure good local exhaust ventilation. Do not eat, drink or smoke at the workplace. Keep in stock as ordinary chemicals. Wear protective goggles and gloves while opening the package. Avoid the direct contact with skin and eyes.

Recommendation SC-P/051 is recommended for security applications.



Disclaimer

Please thoroughly read the Material Safety Data Sheet (MSDS) prior to processing. The Material safety Data Sheets according to 91/155/EWG form, contain indications of hazardous ingredients. Exposure levels and instructions for precautions when processing, handling and storing as well as first aid. The information given in the MSDS refers to the processing as described within this technical leaflet. Above data are based on laboratory tests and field experience. All therein contained statements are to the best of our knowledge without any obligation from our side and do not discharge from testing the product by yourself. In doubtful cases, you are kindly requested to either perform your own tests or refer to our technical staff. Application, use and processing of the delivered products are beyond our control and are therefore at your own risk and responsibility. Printcolor is thus free from any guarantees or liabilities. In cases of justified complaints, Printcolor can only be made liable for the counterpart of the utilized ink system. Adding not stated products or foreign / competitors products, is solely at your own risk and liberates Printcolor of any later calls; especially in cases when damages occurred and which have been caused through use of products of foreign type. This leaflet replaces all former issues. (04/2009)



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