Permanent Thermochromic Change Pigments & Coatings

Product Data Sheet

Color Change Background

Test prints of various LRCHallcrest Permanent Thermochromic Change Pigments & Coatings were heated for 3 minutes and measured for color density.

Magenta, closely followed by Black reached the strongest color point at 60°C of the colors measured. The color change for magenta and black is sharp.

Turquoise, Orange and Blue need a higher temperature point to reach a comparable density and have a more gradual color change profile.

NOTE: Magenta is best for lower temperature activation; at 60°C it shows good color.

CONCENTRATE

Primarily intended for use in the formulation of paints using water based resins or binders.

PIGMENT CONCENTRATES

Solids: 48% ± 2%

Pigment Concentration: 39% ± 2%

Particle Size: 95% < 15 µm

pH: 6-8 depending on range

Light Fastness: 1-3 (BWS) depending on color

INKS

Printing methods including Screen and Flexographic onto print receptive plastics and absorbent surfaces such as paper.

WATER BASED INKS

Solids: 44% ± 2%

Pigment Concentration

Flexo: 26% ± 2%

Screen: 29% ± 2%

Particle Size: 95% < 15 µm

pH: 6-8 depending on range

Light Fastness: 1-3 (BWS) depending on color

Temperature Range

60° - 200°C

Storage

A shelf life of 1 year is guaranteed provided that the containers are not opened and are stored in an ambient temperature of 16 to 22°C with no exposure to UV (Sun) light. Concentrates may be subject to settlement on standing and should be stirred well before use.

Safety Data Sheet Irreversible Thermochromic Ink NH SDS004 Rev4 available upon request