

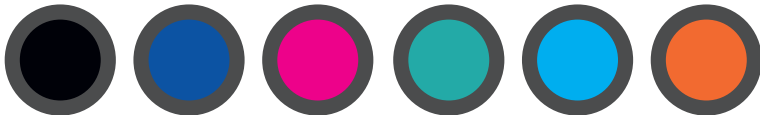


Colours

kromagen™ is colourless in its cold state becoming coloured when heated above its rated temperature. This reaction is irreversible.

A range of colours, which is determined by available raw materials, are available:-

Standard Colours



Speciality Colours



Thermochromic Pigment



Conventional Pigment



Properties

Colour Intensity/Opacity:

kromagen™ is a translucent material and as such appears best on a white background. Colour strength is highly dependant on the coating weight. The colour offering the best opacity is black using a heavy deposit.

Temperature Rating:

kromagen™ is designed as a process indicator and as such its colour change is a gradual one over a range of temperature. The rating chosen has indicates the approximate midpoint of the temperature range. Products available depending on colour requirements include 60, 75, 80, 90, 100, 120, 150, 160 and 170.

Standard Temperatures and Colours:

Due to the large number of combinations possible we stock two of the most popular colours and temperatures which are Black and Magenta 75 and 90. Stocks of other colours and temperatures vary (call for current availability).

Products:

kromagen™ is supplied as an Aqueous Concentrate for the user to formulate their own ink or coating. Also we supply a premixed formulation for water based flexographic and screen ink. Custom formulations for solvent and UV systems are possible on request.

Light Fastness:

Thermochromics have generally good lightfast properties in visible light but poor in UV light. Performance varies from colour to colour.

Temperature resistance and permanence:

kromagen™ can produce very stable results that are resistant to high temperatures and have good permanence depending on colour and temperature rating so please take to our technical team over your needs.



Product Information

kromagen™ is a chromogenic material which when heated generates colour irreversibly allowing colour to remain when cooled.

It is supplied either as an acrylic based pigment concentrate or as a ready formulated flexographic or screen ink.

Products

kromagen™ is supplied in two formats:-

Concentrate

kromagen™ concentrates are primarily intended for use in the formulation of inks using water based resins or binders however we are also able to offer solvent and UV curable concentrates in certain temperatures and colours.

We also produce concentrates in customer supplied resins to help with formulation and as such are happy to test any resins supplied to us for compatibility.

Inks

Due to the restriction in what additives can be successfully used with **kromagen™** we have developed a range of formulations designed for use in several printing methods including **Screen and Flexographic** onto print receptive plastics and absorbent surfaces such as paper.

Standard inks are water based however we also offer **Solvent Based Inks** for certain temperatures and colours.

Full technical data sheets and material safety data sheets (TDS & MSDS) are available for both products on request.

Specifications

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 Colour

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 Colour

Storage

A shelf life of 2 years is guaranteed provided that their containers are not opened and are stored in an ambient 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.

