



ATLANTA CHEMICAL ENGINEERING

Balancing Creativity and Functionality

Instructions for Use

Thermochromic Screen printing/ Offset ink

- Thermochromic (color changing) Screen printing Ink is supplied as ready to use water-based material.
- Screen Printing Ink is NON-TOXIC or harmful to human health, but generally, when working with Screen printing Inks it is recommended to wear a lab coat (or old clothes), use gloves and safety glasses.
- Screen printing Inks should NOT be diluted with water.
- When working with thermochromic Screen printing Inks, wear a lab coat (or old clothes), use gloves and safety glasses.
- Do not mix thermochromic screen printing inks of different brands or colors.
- Our thermochromic Screen Printing Inks are ideally suited for flatbed screen-printing process onto different surfaces such as paper, cardboards, ceramics, rubbers, wood, metals, plastics, glass and many more. The material would be used as an **offset** ink as well. **For fabrics we recommend using our Thermochromic Fabric Paints, which also could be screen-printed.**
- The surface subject of screen printing must be clean and dry. This will assure proper adhesion of the material.
- The recommended screen mesh size is 110, but it is not limited to this size. If the image has fine details, then a higher number screen could be used.
- Do not allow the material to sit dormant on the screen as this will cause “drying in” the screen and affects print definition and quality.
- The reversible Screen Printing Inks would be cured up to 160°C / 320°F no longer than 2 minutes for an immediate use or air dried for 12 hours. **Note: Higher temperatures or longer heating time may destroy the fine microstructure of the Thermochromic Screen Printing Ink.**
- **The irreversible Screen Printing Inks should be air dried ONLY!**
- The thermochromic material should be cleaned off from the screen using just water. Glycol based cleaners or any strong organic/inorganic solvents, bases or acids should not be used as they would damage the function of the screen. A mild water jet may be required to remove all ink material’s remnants.

Store the Screen Printing Inks in a cool, dark, and dry place.

- Stir well before use

- Do not store the thermochromic screen printing ink at temperatures above 77°F / 25°C.

- Do not freeze the thermochromic screen printing ink.

- As the product is water based it is important to keep the containers tightly shut to avoid water evaporation.

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