



ATLANTA CHEMICAL ENGINEERING

Balancing Creativity and Functionality

Instructions for Use Thermochromic Pigments

- The Thermochromic (color changing) pigment is NON-TOXIC or harmful to human health, but generally, when working with powder it is recommended to wear a lab coat (or old clothes), use gloves, safety glasses and a dust respiratory mask.
- Do not mix pigments of different brands or colors.
- Never touch Thermochromic Pigment powder or containers with contaminated gloves to prevent cross contamination.
- When mixing, add the binder to the Thermochromic Pigment a little bit at a time and stir constantly to avoid lump formation. Use a wooden or plastic stick for stirring. If your binder is water-based and you need to make the final paint or ink thinner, use distilled water ONLY.
- Use **clear** binders with **neutral** PH of 7. The acidic or alkaline binders could destroy the fine microstructure of the color changing pigment. The binder could be kind of glue or adhesive suitable for the corresponding surface (plastic, metal, wood, etc.).
- Avoid using strong organic solvents in combination with the Thermochromic pigment.
- Keep the Thermochromic Pigment in a cool, dark, and dry place.
- Avoid exposing the Thermochromic Pigment to direct sunlight.
- Do NOT overheat the Thermochromic Pigment or your final mixture. The maximum heating temperature should not exceed 320°F (160°C) lasting for no more than 2-3 minutes.

Overheating may destroy the fine microstructure of Thermochromic Pigments.
Overheating may also cause fire!

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