



ATLANTA CHEMICAL ENGINEERING

Balancing Creativity and Functionality

Instructions for Use

Thermochromic Powder Pigment

- The Thermochromic (color changing) Powder Pigment is NON-TOXIC 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 Powder Pigments of different brands or colors.
- Never touch the Thermochromic Powder Pigment or containers with contaminated gloves to prevent cross contamination.
- When mixing, add Thermochromic Powder Pigment to the binder 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 Powder 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 Powder Pigment. There is no specific ratio of Powder Pigment to Binder 5% to 15% by weight (depending on application). The more powder Pigment you add, the more vibrant your final project's color will be. Start adding a little at a time until you get your desired color concentration.
- Keep the Thermochromic Powder Pigment in a cool, dark, and dry place.
- Avoid exposing the Thermochromic Powder Pigment to direct sunlight.
- Do NOT overheat the Thermochromic Powder Pigment or your final mixture. The maximum heating temperature should not exceed 320°F (160°C) lasting for no more than 2-3 minutes.

Note: Longer heating at a high temperature may destroy the fine microstructure of Thermochromic Powder Pigment. Overheating may cause fire!

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