



ATLANTA CHEMICAL ENGINEERING

Balancing Creativity and Functionality

Instructions for Use Thermochromic Powder Pigment

- Thermochromic (color changing) Powder Pigment is NON-TOXIC, but as a general rule, when working with powder it is recommended to wear a lab coat (or old clothes), use gloves, safety glasses and a dust respiratory mask.
- Thermochromic Pigment does NOT mix directly with water. You need to mix it into a binder to blend. The binder could be kind of glue, resin, silicone, paint, Mod Podge, hair gel, nail polish or any medium, adhesive suitable for the corresponding surface you want to apply on (plastic, metal, wood, fabric, hair etc.).
- Do not mix Powder Pigments of different brands or colors.
- When mixing, add Thermochromic Powder Pigment to the binder a little bit at a time and stir constantly to avoid lump formation. 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.
- Avoid using strong organic solvents in combination with the Thermochromic Powder Pigment. There is no specific ratio of Powder Pigment to Binder (10% 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's container in a cool, dark, and dry place, away from UV light.
- Avoid exposing the Thermochromic Powder Pigment to direct sunlight.
- Do NOT overheat the Thermochromic Powder Pigment or your final mixture. Maximum heating temperature should not exceed 320°F (160°C) lasting for no more than 2 minutes.

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