

PHOTOPIA[®]

light sensitive color change

Waterbased Photochromic colorants PHOTOPIA AQ Ink

Product Outline







PHOTOPIA AQ Ink is a photochromic aqueous slurry in high concentration which changes its color reversibly by Sunlight (UV light). Mixing PHOTOPIA AQ Ink into various aqueous base printing paste, the light sensitive color change on textile, paper or film can be achieved. Using exhaustion dyeing system, PHOTOPIA garment dye is also possible.

Property

| | Yellow AQ-G | Blue AQ-T | Purple AQ-R |
|----------------------------------|---------------------------------------|-------------------|-------------------|
| Appearance | Pale Yellow Paste | Pale Green Paste | Pale Purple Paste |
| Component | Microcapsulized Photochromic Colorant | | |
| Ave. Particle Size | 2.0 ~ 4.0 μ m | 2.0 ~ 4.0 μ m | 2.0 ~ 4.0 μ m |
| pH | 7.0 \pm 0.5 | 9.5 \pm 0.5 | 9.5 \pm 0.5 |
| Density (g/cm ³) | 1.05 \pm 0.05 | 1.03 \pm 0.05 | 1.03 \pm 0.05 |
| Viscosity (mPa · s) (at 25°C) | 1,000 ~ 8,000 | 500 ~ 3,000 | 500 ~ 3,000 |
| Solid Content | 25~30% | 40.0 \pm 2.0% | 40.0 \pm 2.0% |

Color Types

Available Colors; 3 colors

| | | |
|--------|--|--|
| | Disappear | Appear |
| | ← | → |
| Yellow |  |  |
| Purple |  |  |
| Blue |  |  |

Applicability

Blend 10-20% into water-based printing paste.
Possible to exhaustion dyeing on cotton product.

Considerations

- Keep sealed and store in dark place under 30°C. Shelf Life; 6 months under 30°C.
- During a long period of storage, a separation may happen. Stir well before each use.
- PHOTOPIA has weak light-fastness although it requires lights for its activation, so pre-test is a must to judge the applicability.
- Blue AQ-T and Purple AQ-R contain TSCA SNUR concerned substances. Please, carefully refer the SDS.

*Carefully test to see the applicability before bulk use.



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