

BAGLA CHEMICALS

TECHNICAL DATA SHEET (TDS) & USER GUIDE

1. PRODUCT OVERVIEW

Bagla Chemicals Premium Solvent-Based Color Paste is a highly stable, concentrated liquid masterbatch engineered specifically for professional PVC Rubber Patch manufacturing. This solution-grade liquid color system features excellent wetting properties, high tinting strength, and exceptional thermodynamic stability.

2. KEY ADVANTAGES & TECHNICAL FEATURES

- **Anti-Bubble Performance:** Formulated using specialized high-boiling, slow-evaporating organic solvents that escape seamlessly during oven heating without causing surface pinholes or micro-cracks.
- **Perfect Matrix Fusion:** Utilizes solution-grade vinyl resins ensuring absolute chemical compatibility with the client's main liquid plastisol compound, preventing any sticky surfaces or plasticizer migration.
- **Zero Color Bleeding:** Stabilized organic and inorganic pigment system ensures vibrant, crisp borders and uniform dispersion that will not bleed or fade across multi-color designs.
- **Optimized Viscosity:** Low-viscosity, micro-milled design prevents mechanical blockages or dripping variations in high-speed auto-dispensing syringes and needle setups.

3. SPECIFICATIONS & PARAMETERS

Technical Parameter	Target Values / Performance Standards
Physical Form	Homogeneous, Free-flowing Liquid Paste
Viscosity	0.22 - 0.50 Pa•s (Optimized for fine dispensing)
Baking Cycle Window	160°C to 180°C (Oven Curing)
End-User Compatibility	Liquid PVC Plastisol Compounds
Shelf Life Stability	12 Months from Manufacturing Date (In air-tight sealed conditions)

4. END-USER APPLICATION GUIDE (CUSTOMERS)

To ensure the finest finish and exact color matching, instruct your end-users to apply the color paste according to the following framework:

- **Recommended Dosing:** Blend **3% to 5%** of Bagla Chemicals Color Paste into the main liquid PVC plastisol compound (e.g., 30 to 50 grams of color paste per 1 kg of clear/white liquid base). Adjust the addition rate depending on the opacity required.
- **Homogeneous Mixing:** Stir your compound thoroughly after adding the paste to guarantee full uniform integration. Filter the final colored liquid if micro-needle manual dispensing syringes are used.
- **Molding and Baking:** Dispense into the clean alloy dye molds. Transfer to the curing station and bake between **160°C to 180°C**. Avoid over-baking beyond 190°C to preserve peak pigment radiance.

- **Storage Precautions:** Always store the paste in tightly locked containers immediately after pulling a portion. Evaporation of active high-boiling carriers due to open exposure can alter flow properties.