
Pigment Blue 15:1 Paste



[Pigment Blue 15:1 Paste](#) is a β -stable crystal form of copper phthalocyanine [pigment paste](#). The water-based paste is processed through multiple stages of wet grinding, which fully breaks down the pigment particles to virtually eliminate hard agglomerates, resulting in excellent paste fluidity.

Unlike the metastable α -form (PB 15:0), its crystal structure is highly stable, effectively preventing color shifts caused by crystal phase transitions. It also offers more reliable solvent and heat resistance.

The pigment itself is insoluble in water and various organic solvents; it relies on dispersants to achieve stable dispersion and compatibility in aqueous systems. It exhibits excellent compatibility with the vast majority of water-based emulsion resins. With outstanding lightfastness and resistance to acids and alkalis, it maintains long-term color stability in both indoor coatings and outdoor products, making it one of the most versatile grades in the phthalocyanine blue family.

Pigment Blue 15:1 Paste Product parameters:

C.I. No.: 74160

Molecular Formula: $C_{49}H_{36}CuN_4$

Average Particle Size: 0.13–0.21 μm

Light Fastness: Grade 7–8 (Scale 1–8)

Heat Resistance: $\geq 230^\circ\text{C}$

Water-soluble Matter: $\leq 1.0\%$

Oil Absorption: 38–48 g/100g

Tinting Strength: 93%–107% (compared to standard sample)



Pigment Blue 15:1 Paste Application:

Various Water-Based Printing Inks

Compatible with flexographic, gravure, and water-based offset printing. It is ideal for paper gift boxes, labels, and laminated flexible packaging. The greenish-blue shade offers high saturation and produces clean halftone dots. It is resistant to color changes when exposed to medium-strength solvents and prevents migration and color bleeding during laminated storage.

Interior and Exterior Water-Based Coatings

Suitable for both indoor artistic wall paints and water-based wood coatings, as well as

exterior weather-resistant coating systems. The paint film provides long-lasting color and withstands acid, alkali, and rain erosion. It can be compounded with yellow pigments to formulate various shades of green, making it a widely used primary blue paste in the coatings industry.

Post-Treatment Finishing for Synthetic Leather

Ideal for water-based surface coloring of synthetic leather. It maintains excellent shade stability even after moderate high-temperature calendaring, meeting the

color matching requirements for mid-to-high-end leather fabrics.

Cultural & Creative Products and Crafts

Perfect for hand-painting pigments, paper coloring, and room-temperature resin crafts. When compounded with red and violet tones, it can create a variety of spot colors such as navy blue and royal blue, offering a wide range of application scenarios.

As largest manufacturer of rhodamine b dye, our color include yellow, red, blue, green, orange and red. Welcome send us inquiry.



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Product link : <https://www.xcwydyes.com/pigment-blue-151-paste.html>