WOF6235 Water-Based HP Indigo Digital Primer
Technical Data Sheet

1. Product Overview

WOF6235 is a premium water-based digital primer formulated specifically for HP Indigo digital presses. Applied inline or offline on papers, boards, and synthetic label stocks, it optimizes substrate surface energy to achieve instantaneous ElectroInk transfer, outstanding ink anchoring, and high optical density without cracking.

2. Product Features

- **Optimized ElectroInk Receptivity:** Chemically engineered for HP Indigo liquid electroinks, ensuring complete dot transfer.
- **Excellent Adhesion & Rub Durability:** Passes stringent tape pull and Sutherland rub tests on diverse paper and label stocks.
- **Broad Press Adaptability:** Runs cleanly on inline coating units (e.g. DigiPrime stations) and offline anilox coaters.
- **Transparent & Non-Yellowing:** Zero impact on substrate whiteness, metallic sheen, or natural texture.
- **Clean Runnability & Low Misting:** Formulated for stable rheology, minimal roller buildup, and easy water washability.

3. Suitable Substrates

Suitable for coated art paper, matte paper, white cardboard (SBS/FBB), label stock, synthetic paper, and metallized paper.

4. Technical Specifications

Property	Unit	Typical Value	Test Method / Notes
Appearance & Color	-	Milky white to transparent liquid	Visual inspection
Viscosity	s	20–25	Zahn #2 cup, 25°C
pH Value	-	8.0–9.5	Precision pH meter, 25°C
Solid Content	%	25±1	Oven method, 120°C × 2 h
Gloss (60°)	GU		

5. Application Guidelines

Ink Preparation	Stir thoroughly for 5–10 minutes; filtration through 200-mesh screen before charging coater.
Plate / Cylinder Specs	Inline/offline roller coater or anilox unit (150–300 LPI), uniform doctor blade pressure.
Dilution Ratio	Ready to use or dilute with deionized water / ethanol:water = 1:4, addition ratio 5%–15%.
Press Viscosity	17–25 s (Zahn #2 cup, 25°C).
Press Speed	30–120 m/min (matched to HP Indigo line speed and drying tunnel airflow).
Drying Method	Hot air impingement drying, 60–80°C; ensure primer film is thoroughly dry before digital printing.
Equipment Cleaning	Flush coater rollers and fluid supply lines immediately with warm water after production.
Application Note	Verify HP Indigo ElectroInk adhesion by cross-hatch tape test on primed substrates before production.

6. Regulatory & Safety

Regulatory Compliance	Complies with EU RoHS 2.0 (2011/65/EU) and REACH (EC 1907/2006) SVHC candidate list.
Food Contact Statement	
Usage Note	
Safety Data Sheet (SDS)	Comprehensive Safety Data Sheets (SDS) are available upon request from HCOLOR technical support.
User Responsibility	Users must independently confirm process compatibility and compliance under actual commercial conditions.

7. Packaging & Storage

Standard Packaging	Standard packaging: 20 kg plastic drum; custom volumes (1 kg, 5 kg, 200 kg) available upon request.
Storage Conditions	Store tightly sealed in original drums at 5–35°C in a dry, ventilated warehouse; protect from freezing.
Shelf Life	12 months from manufacturing date in unopened original containers.
Post-Opening Care	Reseal containers tightly immediately after use; consume within 6 months to prevent surface skinning.

8. Typical Product Grades

Product Code	Key Features	Suitable Substrates	Target Applications
WOF6235	HP Indigo digital primer / ElectroInk receptivity / Flawless transfer	Coated paper, SBS board, synthetic paper, label stock, metallized paper	Base priming for HP Indigo digital printing on luxury cartons, boutique labels, and commercial packaging

1. Baseline Platforms & Customization: The products listed above are core baseline platforms proven through extensive commercial mass production. To meet specific line speeds, substrate surface tension variations, or demanding inter-coat bond strength, HCOLOR provides tailored viscosity adjustments and custom functional performance development.

2. Specialty Process Integration: If integration with functional barrier coatings, high-gloss UV overprint varnishes, or heat-activated adhesives is required, please contact HCOLOR technical support for a comprehensive turnkey formulation solution.

9. Disclaimer

1. The data are typical values intended for product selection and technical reference only. Unless otherwise agreed in writing, they do not constitute guaranteed specifications.

2. The information contained herein is based on our current knowledge and experience and is provided in good faith for general application guidance only. It does not constitute a legal warranty, guarantee, or binding technical specification. Users are strictly responsible for evaluating and confirming product suitability, process compatibility, and commercial usability under their actual operating conditions and production equipment prior to commercial use.