# UOP-2000 Series UV Gravure Matte Texture Ink
# Technical Data Sheet

## 1. Product Overview

Specialty UV gravure matte textured ink designed for rotogravure presses. Formulated with spherical micro-particles to produce a delicate, uniform sand-touch finish with soft tactile sensation and zero specular glare. Ideal for premium cigarette packaging, liquor cartons, and luxury cosmetic boxes.

## 2. Product Features

- **Delicate Matte Feel:** Uniform matte granularity with soft tactile hand feel;
- **Anti-Glare Surface:** Low gloss diffuse reflection, eliminating glare;
- **High Scuff Resistance:** Robust surface toughness against abrasion and pallet rub;
- **Hot Stamping Adaptability:** Select grades provide excellent hot foil receptivity;
- **Eco-Friendly & Low Odor:** Low residual volatiles, compliant with green packaging requirements.

## 3. Suitable Substrates

Suitable for gold/silver foil board, SBS ivory board, and coated paper.

## 4. Technical Specifications

| Property | Unit | Typical Value | Test Method / Notes |
|---|---|---|---|
| Appearance & Color | - | Light yellow translucent liquid | Visual inspection |
| Viscosity | s | 35–50 | Coating Cup #4, 25±0.5°C |
| Solid Content | % | ≥80 | GB/T 33374-2016 |
| Gloss (60°) | GU | 40–60 | 60° angle, GB/T 13217.2-2024 |

## 5. Application Guidelines

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| Ink Preparation | Specialty additives may stratify over time; stir thoroughly before use. |
| Plate / Cylinder Specs | 18–25 µm cell depth. |
| Dilution Ratio | Use dedicated UV thinner or ethyl acetate. |
| Press Viscosity | 28–40 s (Coating Cup #4, 25°C). |
| Press Speed | 100–150 m/min. |
| Drying Method | High-pressure mercury UV lamp system. |
| Equipment Cleaning | Clean with ethyl acetate or cylinder wash. |
| Application Note | Test matte tactile intensity and hot foil adhesion under actual shop conditions. |

## 6. Regulatory & Safety

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| Regulatory Compliance | Complies with RoHS and REACH (SVHC) directives. |
| Food Contact Statement | Formulated for non-direct food contact outer packaging only. For specific food-contact migration compliance, please contact HCOLOR technical department for dedicated project evaluation. |
| Usage Note | |
| Safety Data Sheet (SDS) | Available upon customer request. |
| User Responsibility | Users must independently verify regulatory compliance, performance, and fitness for intended purpose under actual operational conditions. |

## 7. Packaging & Storage

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| Standard Packaging | 20 kg / 25 kg plastic pails; 1,000 kg IBC containers (custom packaging available upon request). |
| Storage Conditions | Store strictly protected from light in tightly sealed containers. Keep in a dry, cool, and well-ventilated warehouse at 5–25°C, away from fire, heat sources, and strong oxidizers. Strictly avoid direct exposure to sunlight and workshop fluorescent lighting to prevent dark polymerization. |
| Shelf Life | 12 months from production date in unopened original containers. |
| Post-Opening Care | Reseal immediately and tightly after dispensing; recommended to use within 6 months. |

## 8. Typical Product Grades

| Product Code | Key Features | Suitable Substrates | Target Applications |
|---|---|---|---|
| **UOP-2448A** | High surface slip, superior leveling | Paper substrates | Cigarette packaging, luxury gift boxes |
| **UOP-2253A11** | High surface slip, excellent hot stamping suitability | Paper substrates | Cigarette packaging, foil-stamped boxes |

1. Baseline Platforms & Customization: The products listed above are core baseline platforms proven through extensive commercial mass production. To meet specific press speeds (e.g., ultra-high-speed inline coating), substrate absorbency variations, or demanding rub/crease-crack resistance requirements, HCOLOR provides tailored viscosity adjustments, customized additive packages, and bespoke functional performance development.

2. Specialty Process Integration: If specialized finishes such as drip-off / drip-relief combination effects or tactile matte finishes are required, please contact HCOLOR technical support for a comprehensive turnkey printing formulation.

## 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.