UVS-1000 Series UV Screen Soft-Touch Tactile Ink
Technical Data Sheet

1. Product Overview

Luxury UV screen soft-touch (skin-feel) tactile ink engineered for screen printing. Imparts an exquisite, velvety, ultra-matte baby-skin touch to printed surfaces. Features ultra-low specular gloss, excellent scuff and burnish resistance, and strong substrate bonding. Ideally suited for luxury cigarette cartons, cosmetics boxes, consumer electronics packaging, and boutique gift boxes.

2. Product Features

- **Velvety Soft-Touch Feel:** Ultra-delicate, warm, skin-like tactile sensation;
- **Ultra-Matte Low Gloss:** Zero specular reflection, creating a deep matte visual elegance;
- **Strong Adhesion & Scuff Resistance:** Excellent adhesion on SBS board, foil card, and laminated stocks;
- **Rapid Leveling:** Fast flow-out eliminating orange peel and pinholes;
- **Low Odor & Eco-Friendly:** Thorough curing with minimal volatile emissions.

3. Suitable Substrates

Gold/silver card, SBS ivory board, coated paper, BOPP/PET laminated board.

4. Technical Specifications

Property	Unit	Typical Value	Test Method / Notes
Appearance & Color	-	White liquid	Visual inspection
Viscosity	s	50–70	Zahn Cup #3, 30°C
Solid Content	%	≥90	GB/T 33374-2016
Gloss (60°)	GU	5–15	60° angle, GB/T 13217.2-2024

5. Application Guidelines

Ink Preparation	Stir thoroughly before use to maintain homogeneous dispersion.
Plate / Cylinder Specs	300–350 mesh count.
Dilution Ratio	Use dedicated UV thinner.
Press Viscosity	Ready-to-use.
Press Speed	2,500–3,000 sheets/hour.
Drying Method	High-pressure mercury UV lamp system.
Equipment Cleaning	Clean with ethyl acetate or screen wash.
Application Note	Thick soft-touch ink films require sufficient UV energy to ensure deep through-cure and avoid surface tackiness.

6. Regulatory & Safety

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

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
UVS-10061A8	Ultra-low gloss, excellent adhesion, high scuff resistance	Paper, PET, BOPP	Cigarette packaging, luxury boxes
UVS-10061A4	Ultra-low gloss, excellent adhesion, high scuff resistance	Paper, PET, BOPP	Cigarette packaging, luxury boxes
UVS-10061L2	Ultra-low gloss, excellent adhesion, high scuff resistance	Paper, PET, BOPP	Cigarette packaging, luxury 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.