UVS-1000 Series UV Screen Matte Texture Ink
Technical Data Sheet

1. Product Overview

High-performance UV screen printing matte/sand effect ink containing specialized polymeric beads. Produces an authentic sandy tactile texture with low specular gloss, high transparency, and superior scuff resistance. Extensively used on cigarette packs, luxury wine boxes, and premium rigid cartons.

2. Product Features

- **Authentic Sand Tactile Touch:** Distinct granular texture available in fine, medium, and coarse profiles;
- **Soft Diffuse Reflection:** Eliminates glare, imparting sophisticated elegance;
- **Excellent Scuff & Blocking Resistance:** High surface hardness preventing scuffing during transport;
- **Stable Screen Passage:** Excellent particle flow through mesh without bridging or clogging;
- **Eco-Friendly & Low Odor:** Rapid curing with low residual odor.

3. Suitable Substrates

Gold/silver board, SBS ivory board, PET, BOPP films.

4. Technical Specifications

Property	Unit	Typical Value	Test Method / Notes
Appearance & Color	-	Milky white liquid	Visual inspection
Viscosity	s	Pseudoplastic state	Good thixotropy
Solid Content	%	≥97	GB/T 33374-2016
Gloss (60°)	GU	10–50	60° angle, GB/T 13217.2-2024

5. Application Guidelines

Ink Preparation	Stir thoroughly; allow bubbles to dissipate before press run.
Plate / Cylinder Specs	150–300 mesh count (150–180 mesh for coarse sand; 250–300 mesh for fine sand).
Dilution Ratio	Use dedicated UV thinner.
Press Viscosity	Ready-to-use.
Press Speed	2,000–3,000 sheets/hour.
Drying Method	High-pressure mercury UV lamp system.
Equipment Cleaning	Clean with ethyl acetate or screen wash.
Application Note	Mesh count and stencil thickness directly control sand feel; confirm with proof samples.

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-1701	Coarse sand texture, strong tactile hand feel	Paper, PET, BOPP	Liquor packaging, luxury gift boxes
UVS-10110	Medium sand texture, excellent printability	Paper, PET, BOPP	Liquor packaging, luxury gift boxes
UVS-1329	Fine sand texture, smooth running	Paper, PET, BOPP	Liquor packaging, luxury gift 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.