



UV easy Sintering Etching Resin—Automotive Glass Ink for Car Windshield

Our Product Introduction

Basic Information

- Place of Origin: Wuhan, Hubei, China
- Brand Name: Meilun Materials
- Model Number: SNK-9000
- Minimum Order Quantity: 20kg
- Packaging Details: 20kg/barrel, 200kg/barrel



Product Specification

- Highlight: automotive front/rear windshield glaze ink resin, UV Easy Sintering Etching Resin



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Product Description

Product Model: SNK-9000

Product Features:

Tempered glass ink undergoes rapid heating at 530–620°C (initial) and 680–720°C (final) followed by instant cooling. This process fuses the glass pigment into the glass substrate, ensuring strong color adhesion and durability. Once colored and tempered, the glass exhibits rich hues, enhanced structural strength, safety, and resistance to atmospheric corrosion. It also demonstrates excellent corrosion resistance and coverage, making it widely applicable for architectural curtain walls, automotive glass, and stove or oven panels.

Traditional solvent-based tempered glass inks are not environmentally friendly due to solvent content, and they have long drying times and low efficiency.

UV-curable ablative resin, on the other hand, is a high-performance material that cures rapidly under ultraviolet (UV) light and forms a surface with ablative properties after curing. It offers fast curing, energy efficiency, and enables automation — transitioning from screen printing to cured formation within seconds to just over ten seconds. It is mainly used in automotive front and rear windshield enamel inks.

Key Properties:

Rapid Curing: Cures in seconds to minutes under UV exposure.

High Hardness and Abrasion Resistance: The cured surface is highly durable, suitable for demanding applications.

Excellent Adhesion: Strong adhesion to various substrates including metal, glass, ceramics, and certain plastics.

High Transparency and Gloss: Ideal for decorative and optical uses due to its clarity and shine.

Ablative Surface: Once cured, the surface exhibits ablative behavior, enabling controlled burn-off effects under specific conditions. Decomposition occurs fully between 350–450°C. During ablation, an oxidizing atmosphere forms, preventing copper chrome black from reducing to red.

Environmentally Friendly & Low VOC: Compared to traditional thermosetting resins, UV-curable resin emits significantly fewer volatile organic compounds (VOCs), making it more eco-friendly.

Product Appearance:

Colorless to pale yellow viscous liquid

Viscosity: 6000–10000 cps (at 25°C)

Acid Value: ≤10

Functionality: 1–2

Application Fields:

Electronics: Encapsulation and protective coatings for high-precision electronic components.

Optical Materials: Surface protection for lenses and optical instruments.

Decorative Coatings: Used in jewelry, furniture, and automotive parts for surface enhancement and protection.

Printing Industry: In UV-curable inks and coatings to improve abrasion resistance and gloss.

Medical Devices: Surface coatings for medical instruments to enhance protection and durability.

Special Effects: Utilized in industrial design and artistic applications for burn-effect finishes and textures.

Automotive Windshield Enamel Inks: As a resin component for front/rear automotive glass.

Usage Instructions:

Surface Preparation: Ensure the substrate is clean, dry, and free from grease or dust.

Coating Application: Apply evenly using a brush, spray gun, or roller.

UV Exposure: Expose the coated surface to UV light; curing time depends on resin type and UV intensity.

Curing Completion: The resin cures within seconds to minutes and is ready for use.

Ablation Treatment: Under specific conditions, apply heat to the cured surface to achieve desired functional or aesthetic effects.

Precautions:

Work Environment: Ensure good ventilation during use to avoid inhalation of any volatile substances.

UV Safety: Operators should wear UV-protective goggles and gloves to avoid direct exposure.

Storage: Store in a cool, dry place away from direct sunlight and heat.

Ablation Safety: Take proper precautions during thermal treatment to prevent fire hazards.

UV-curable ablative resin, with its unique properties and broad application prospects, is becoming an essential material in both industrial and creative fields.

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