

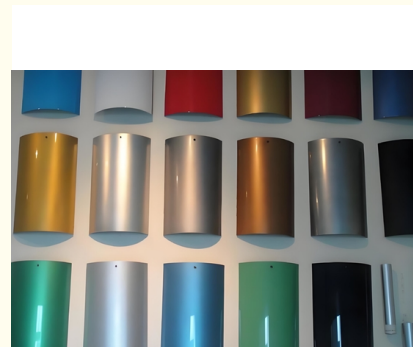


UV Plastic Coating Resin Clear Coating Epoxy Resin

Our Product Introduction

Basic Information

- Place of Origin: Wuhan, Hubei, China
- Brand Name: Meilun Materials
- Model Number: SNK
- Minimum Order Quantity: 20kg
- Packaging Details: 20kg/barrel, 200kg/barrel
- Payment Terms: L/C, T/T
- Supply Ability: 50T/month



Product Specification

- Highlight: UV Plastic Coating Resin,
UV chemical resistant resin,
UV high weather resistant resin



武汉美纶新材料有限公司
WUHAN MEILUN NEW MATERIALS CO., LTD

Product Description

UV Plastic Coating Resin: A Next-Generation Solution Leading Surface Treatment Technology

UV (ultraviolet) curing resin, as the core material of modern industrial coating technology, is gradually replacing traditional thermal curing systems due to its advantages of high efficiency, energy saving, environmental friendliness, and excellent performance. In response to the specific requirements of plastic substrates, we have launched the UV plastic coating resin series, covering polyurethane acrylate, UV high optical performance resins, UV chemical-resistant resins, and other diversified solutions to meet the broad needs from consumer electronics to the automotive industry.

Core Product Features and Advantages

Polyurethane Acrylate: The Cornerstone of High-Performance Resins

- **Chemical Structure:** By synergistically designing the polyurethane segments and acrylate functional groups, the coating provides high adhesion, flexibility, and wear resistance.
- **Applicability:** Perfectly matches common plastic substrates such as ABS, PC, PET, and PVC, addressing issues like delamination and poor scratch resistance on plastic surfaces.
- **Environmental Friendliness:** Free of VOCs (volatile organic compounds), compliant with international environmental standards such as RoHS and REACH.

UV High Optical Performance Resin: The Ultimate Pursuit of Transparency and Aesthetics

- **Light Transmission > 95%:** Suitable for applications requiring strict transparency, such as smartphone covers and optical lenses.
- **Low Yellowing Index:** Maintains a clear appearance even after long-term use or UV aging tests, avoiding the yellowing issues common with traditional resins.
- **Matte/Gloss Options:** Various surface effects can be achieved by adjusting the formula, meeting the aesthetic needs of consumer electronics and luxury packaging.

UV Chemical-Resistant Resin: Withstanding Harsh Environmental Challenges

- **Solvent Corrosion Resistance:** Excellent tolerance to alcohols, acidic and alkaline solutions, making it ideal for medical devices and laboratory equipment coatings.
- **Fingerprint and Stain Resistance:** The hydrophobic and oleophobic surface design reduces cleaning frequency and extends the product's lifespan.

UV High Weather Resistance Resin: Tackling Extreme Outdoor Conditions

- **UV Aging Resistance:** Incorporating nano-level UV absorbers to resist long-term sunlight exposure, suitable for automotive exterior parts and outdoor displays.
- **Wide Temperature Stability:** Maintains stable physical properties from -40°C to 120°C, preventing cracking or deformation.

UV High Adaptability Resin: Compatible with Complex Processes and Substrates

- **Multi-Step Curing Technology:** Supports various processes such as spraying, roller coating, and dip coating, adapting to the coating needs of irregular and precision parts.
- **Low-Temperature Curing Ability:** Can cure at temperatures as low as 50°C, preventing damage to heat-sensitive plastics such as PP and PE.

UV Fast Curing Resin: Key to Improving Production Efficiency

- **Second-Level Curing (1-5 seconds):** Significantly shortens production cycles, with energy consumption only 20%-30% of traditional processes.
- **Low-Energy Equipment Compatibility:** Compatible with LED-UV light sources, reducing equipment investment and operating costs.

Application Field Examples

Industry	Typical Applications	Core Requirements Met
Consumer Electronics	Smartphone covers, headphone surfaces, smart wearables	High optical performance, fingerprint resistance, matte finish
Automotive Manufacturing	Interior panels, headlamp covers, exterior parts	High weather resistance, scratch resistance, chemical cleaner tolerance
Packaging Industry	Cosmetic bottles, luxury gift boxes	High gloss, eco-friendly, non-toxic, fast curing
Medical Devices	Surgical instrument handles, testing equipment housings	Resistance to disinfectants, biocompatibility, antimicrobial coatings

Conclusion

Our UV plastic coating resin series, based on polyurethane acrylate, provides customers with highly adaptable, fast-curing, and long-lasting solutions through modular formulation design. Whether pursuing the ultimate optical performance or addressing harsh chemical environments, we can offer precise matching through custom services.

Contact us now to receive free samples and technical support, and explore the infinite possibilities of plastic surface treatment!

Note: The parameters above can be adjusted based on specific customer requirements, and third-party testing reports and industry application cases are available.

Test Formulation (using a 25μm wire bar):

SNK: 10g
184: 0.2g
TPO: 0.3g / 10.5g

This formulation is designed to be tested for its performance using a 25μm wire bar application.

Recommended product models(please search on the site):

SNK-2116,SNK-2117,SNK-2205,SNK-2202,SNK-2203,SNK-2227,SNK-2228,SNK-2232,SNK-2238,SNK-2250

Storage and validity period:

- 1: This product should be stored in a cool, well-ventilated room, and strictly protected from light exposure for stable storage.
- 2: Keep the resin away from heat sources and store it in a dark place to prevent potential hazards or affecting the stability of

resin storage.

3: When stored at room temperature, it remains stable for six months. After use, please tightly seal the container to avoid exposure to light sources and gelation.

Package

200 kilograms/iron drum

20 kilograms/iron drum

200 kilograms/plastic drum

20 kilograms/plastic drum



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