



Solvent Free UV Wood Varnish Resin Eco Friendly High Transparency

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
- Supply Ability: 50T/month



Product Specification

- Highlight: UV wood varnish resin,
UV excellent wear-resistant resin,
UV decorative effect resin



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

Product Description

UV Waterborne Wood Coating Resin Product Introduction: Empowering Eco-Friendly Coatings with Innovative Technology

In recent years, as global environmental regulations have become increasingly stringent and consumers' demands for healthy living environments have grown, UV waterborne wood coatings—with features such as zero VOC emissions, efficient curing, and outstanding performance—have emerged as a revolutionary force in the wood coating industry. As the core raw material for UV waterborne coatings, the quality of the resin directly determines the ease of application, decorative effect, and durability of the coating. In response to market demands, we have launched a range of high-performance UV waterborne wood coating resins that cover applications from basic protection to high-end decoration.

Core Product Series and Characteristics

UV Wood Clear Coat Resin / UV Clear Coat Resin

Transparent Coating Design: Specifically formulated for transparent coatings on wood surfaces, these resins offer ultra-high transparency and a rich gloss that perfectly showcases the natural grain of the wood.

Dense, Scratch-Resistant Film: The resulting film is dense with excellent scratch resistance, making it ideal for furniture, crafts, and other applications where high surface quality is essential.

UV Superior Wear-Resistant Resin

Enhanced Durability: Through optimized molecular structure, this resin provides exceptional wear resistance (achieving a hardness of 4H or above) and impact resistance, making it suitable for high-load environments such as wooden floors and countertops.

Polyurethane Acrylate & Aliphatic Polyurethane Acrylate

Polyurethane Acrylate: Combines the flexibility of polyurethane with the weather resistance of acrylate, ensuring strong adhesion and outstanding chemical resistance.

Aliphatic Polyurethane Acrylate: Incorporates a fatty chain structure that delivers excellent anti-yellowing performance, keeping the film clear over time—ideal for outdoor furniture and light-colored wood products.

UV High Transparency Resin

Flawless Light Transmission: Achieves a seamless light-transmitting effect, overcoming common issues in traditional resins such as haze and yellowing. This resin is perfect for high-end musical instruments, art furniture, and other applications demanding strict transparency.

UV Decorative Effect Resin

Customizable Finishes: Offers a range of customizable surface effects—such as matte, satin, and embossed finishes—to meet personalized design needs and enhance product value.

UV Acrylate-Specific Clear Coat Resin

Optimized for Acrylate Primers: Developed specifically to work in tandem with acrylate primers, this resin provides strong interlayer adhesion, excellent leveling properties, and a smooth, uniform film, thereby significantly boosting coating efficiency.

UV Rapid-Curing Resin

Ultra-Fast Curing: With high photo-initiation efficiency, this resin cures in just 3–5 seconds under UV light. It is ideal for automated production lines, dramatically reducing both energy consumption and processing time.

Core Product Advantages

Eco-Friendly and Safe: The waterborne system is free of organic solvents, with near-zero VOC emissions, meeting environmental standards such as the EU REACH and China's GB regulations.

Outstanding Performance: Superior hardness, wear resistance, and anti-yellowing properties far exceed those of traditional solvent-based coatings, extending the service life by over 30%.

Ease of Application: Compatible with various application methods—including spraying, rolling, and flow coating—the resin dries quickly with short re-coating intervals, enhancing overall coating efficiency.

Energy Saving and Cost-Effective: UV curing consumes only 10%–20% of the energy required by thermal curing coatings, reducing overall costs by 25%–40%.

Comprehensive Application Scenarios

Furniture: Ideal for surface coatings on solid wood furniture, cabinets, doors, and windows.

Building Materials: Provides wear-resistant protection for wooden floors, wall panels, decorative moldings, and more.

Crafts: Delivers high-transparency and glossy effects for musical instruments, wood carvings, cultural products, and creative designs.

Industrial Wood Products: Suitable for applications requiring rapid curing, such as toys and packaging boxes.

Why Choose Our UV Waterborne Resin?

Leading Technology: Manufactured using internationally advanced polymerization processes that ensure a narrow molecular weight distribution and stable performance.

Customized Service: We adjust parameters such as hardness, viscosity, and curing speed according to customer requirements.

Comprehensive Support: From formulation development to application guidance, we provide one-stop technical solutions.

Green Certification: Certified by authoritative bodies such as SGS and FDA, our resins are safe, non-toxic, and help your business build an eco-friendly brand.

Conclusion

In an era where environmental protection and performance go hand in hand, our UV waterborne wood coating resin series is driven by innovative technology to offer high-efficiency, sustainable coating solutions. Whether you are looking to enhance your product competitiveness or meet the demands of green production, we are your reliable partner.

Contact us now to obtain exclusive resin samples and technical support!

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-2117,SNK-2202,SNK-2203,SNK-2205,SNK-2227,SNK-2228,SNK-2250,

SNK-2252

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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