SIO-520 Anti-Graffiti High Hardness Silicone Resin Topcoat

(Fast Drying)

Product Overview

SIO-520 is a non-toxic, harmless, water-repellent, and oil-repellent silicone resin topcoat that offers excellent UV resistance and self-cleaning properties (similar to leaves where dust naturally washes off when it rains). It provides superior chemical resistance, acid and alkali resistance, anti-aging, waterproofing, oil-proofing, graffiti protection, and long-lasting durability. Surfaces coated with this product exhibit enhanced antibacterial, anti-mold, anti-moisture, anti-staining, anti-graffiti properties, and increased hardness and gloss.

Product Composition

Special Silicone Resin, Tetrasiloxane, Ethyl silicate

Product Features

- **Environmentally Safe**: Low odor, free of toxic substances, non-flammable (flash point > 55°C).
- **Easy Application**: Single-component (moisture-curing system), moderate viscosity, fast curing speed.
- **Strong Anti-Staining Power**: Graffiti resistance level 1, strong hydrophobicity (water contact angle ~110°), oil-repellent (oil contact angle ~30°), resistant to dirt, and easy to clean.
- **Durable and Wear-Resistant**: Forms a transparent film on the surface of the substrate with a pencil hardness ≥7H, 0-level adhesion.
- **Pure Organic Silicone Composition**: Anti-aging, non-yellowing, weather-resistant, resistant to boiling water, withstands high temperatures up to 300°C, and resists corrosion from polar organic solvents (e.g., alcohol, PMA, paint thinner), vinegar, red wine, cola, etc.

Applications

As a functional coating, SIO-520 is primarily used on surfaces of organic and inorganic substrates that are inert or difficult to adhere to. It is suitable for thermoplastic plastics, advertising paints, powder coatings, graffiti-resistant topcoats, GRC, stone, wood, paint surfaces, and more. It provides waterproofing, oil-repellent, and graffiti protection, making it ideal for removing oil marker stains and restoring old paint surfaces. It can also eliminate sun patterns and make aged surfaces look like new.

Application Process

1. Ensure the substrate surface is dry, free from oil, clean, and free of contaminants.
2. The product can be evenly wiped onto the substrate surface or applied by spraying, brushing, or dipping.
3. The surface will be dry to the touch within 6 minutes at room temperature. Fully cured after 24 hours, allowing for testing and use.

Technical Specifications

Property	Value
Appearance	Colorless transparent slightly viscous liquid
Density (g/mL, 25°C)	0.98
Active Ingredient Content	30%
Viscosity (4 cup)	20 seconds
Coating Thickness	5-10 microns
Coverage Area	40-60 m^2/kg

Packaging and Storage

- **Packaging**: 20 kg per drum.
- **Shelf Life**: Store in a cool, dry place, unopened for 6 months.

Precautions

1. **Fast Drying**: Since SIO-520 dries quickly, avoid exposing the product to air for extended periods without the lid.
2. **Cleaning Tools**: After spraying SIO-520, clean the spray gun and tools within 30 minutes using D40 or D100 cleaning agents.
3. **Avoid Moisture**: During spraying or dipping, ensure no contact with moisture. Do not mix water or alcohol into the product during storage or use. It is recommended to store the product in opaque glass bottles or aluminum cans, not in PET, LDPE, or other permeable bottles.

Disclaimer

The above information is based on what we consider reliable data. We sincerely provide this information, but it does not constitute a legal guarantee of product quality or responsibility for application, as we cannot control the conditions and methods of product use. We recommend that users test the product before use, especially if there are changes in raw materials or application environment.