

SQ-720002 Anti-fouling Hardening UV Varnish

Description

SQ-720002 single-component UV hardening liquid is mainly used for hardening the surface of PC, PET, PMMA, PC/PMMA composite sheets or membranes. It can be applied by spraying, shower coating, roller coating and other methods. After the coating is formed into a film, it has good adhesion to the substrate and can protect the surface of the coated material for a long time. The coating process is simple and the production efficiency is high. The coating has good optical properties, does not produce rainbow streaks, has high cross-linking density, low curing shrinkage, extremely high hardness, excellent wear resistance, and good anti-graffiti performance. It can be used to make texture decoration and shell molding for mobile phones, laptops, home appliances and other products. Good chemical resistance, high transparency, steel wool resistance 50-200 times.

Technical data

Appearance	Transparent liquid
Viscosity (Iwata – 2 cups)	8.5-9.5 S
UV component (%)	35±2 %
Density (g/cm ³ , 25°C)	0.90±0.05

Coating performance

Test items	Test Data
Hardness (1Kg force load)	2H—5H
Coating thickness (μm)	5-15
Boiling performance (surface spray paint, no primer 100°C/60min)	Adhesion 5B, no change in coating
Bending (cylindrical shaft diameter)	35mm
Curing energy (mercury lamp, mj/cm ²)	600-1,000
QUV resistance	More than 300h
Anti-friction performance (1Kg load-bearing, wear-resistant machine, 1*1 grinding head, 0000# steel wool)	100 times, no wear marks
Anti-graffiti (Zebra oil-based pen)	Oleophobic lines, easy to wipe off
Water contact angle	100-105°

Note: The above performance parameters can be customized according to customer requirements

Performance

The product is suitable for hardening the surface of PC, PET, PMMA, PC/PMMA composite sheets and other sheets and film materials;

Oil-proof pen for graffiti, easy to clean, wear-resistant and scratch-resistant;

It has good wetting properties on the substrate, and the surface energy of the coating after film formation is low;

Has a smooth feel;

It has good resistance to high and low temperatures, high humidity, chemical solvents, moisture

Applications

Texture decoration and shell molding of mobile phones, laptops, home appliances and other products.

Construction technology

1. The commonly used coating methods for UV wear-resistant hardening fluid are spray coating, shower coating and roller coating. Please avoid exposure to sunlight;
2. The product does not require any pre-treatment (including dilution). It is recommended to shake before coating to make the liquid evenly distributed;
3. When performing shower coating, the nozzles of the shower coating equipment should be sprayed from the same horizontal line from left to right. Please refer to the equipment manufacturer's instructions for the specific process;
4. After the shower coating is completed, keep the plate running vertically for about 2 minutes to allow it to evaporate and level freely, then enter the drying tunnel at 60-70°C and keep it vertically heated for 5 minutes;
5. After heating, enter the UV curing lamp area for routine curing. The specific curing time is recommended to be adjusted according to the energy of the lamp. If conditions permit, the time can be extended appropriately, which will help improve the hardness of the film layer; (The energy of the UV curing lamp during the test experiment was 2000W. Lamp tube length 30cm)
6. After curing, cool the material to room temperature and then measure its properties directly;
7. After coating, please clean the equipment thoroughly with organic solvent.

Precautions

1. Ensure that the UV adhesive layer absorbs sufficient UV energy to achieve the best curing effect, otherwise it will easily affect the performance of the adhesive layer.
2. Remaining glue cannot be returned to the original packaging. It should be sealed away from light and stored at room temperature.

Storage

To prevent the product from polymerization and gelling, please keep it sealed and away from heat and light. Recommended storage temperature is not higher than 30°C. Unused products must be sealed and stored in a timely manner and cannot be stored in the open. Safe storage time is 6 months at room temperature(25°C) and under ventilation. 1KG/5KG/25KG/barrel

Tips: SQ-720002 Anti-fouling and hardening liquid, good resistance to yellowing, good transparency, hardness 2-5H, water drop angle 100-105°.

Note: Technical data represents typical values only. In view of the differences in formulas, production process, conditions, all the above statements must be adjusted according to the actual situation, our company does not make any promises. Our company reserves the right to reform its products without prior notice of any changes.