SQ-720005 BOPP Anti-scratch Wear-resistant UV Varnish

Description

SQ-720005 one-component UV matte hardening liquid is mainly used for hardening the surface of BOPP light film, paper, PVC and other film surfaces. It can be applied by spraying, roller coating, etc. 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 uniform matteness, no blooming, a delicate and smooth feel, and good scratch resistance.

Technical Data

Test Items	Test Data
Appearance	Slightly transparent liquid
Viscosity (apply 4 cups/25℃)	40 - 80S
Solid Content (%)	60 ± 2
Density (g/cm³, 25℃)	0.90 ± 0.05
Hardness (1Kg force load)	1H - 3H
Coating Thickness (μm)	5 - 8
Gloss (gloss meter)	6 - 8°
Flexibility	Withstands 50% elongation without cracking
Curing Energy (mercury lamp, mj/cm²)	600 - 1,000
QUV Resistance	Over 2000h
Anti-friction Performance (4 pounds load, wear-resistant machine)	Over 1000 times

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

Product Features

It has matte finish, wear resistance, high adhesion, non-yellowing, etc. The effects of velvet, rubber and velvet can be achieved according to different production processes.
Good chemical resistance, no blistering, no curling, no warping
The coating surface can be screen printed and hot stamped

Applications

Various paper, PVC, PET, PP matte glue, BOPP light film and other plastic substrates are used to produce high-end signs or printed products, making the surface of the printed matter more gorgeous.

Application Process

1. The UV-curable universal abrasion-resistant hard coating is typically applied by spray coating or roll coating. Avoid exposure to direct sunlight.
2. The product can be diluted with a suitable solvent. Shake well before application to ensure uniformity, and filter if necessary.
3. During roll coating, pass the coated substrate through a 60–70 °C heating tunnel for 2 minutes.
4. After pre-heating, move the substrate into the UV curing zone for standard curing.
The curing time should be adjusted according to the lamp's energy output; if possible, slightly extending the curing time can help improve film hardness. (Typical test conditions: UV lamp power 2000 W, lamp length 30 cm.)
5. After curing, allow the substrate to cool to room temperature before performing performance testing.
6. After roll coating, thoroughly clean all equipment with an organic solvent.

Precautions

1. This product has been diluted to a solid content and viscosity suitable for roller coating. It can be diluted with a solvent before use. If customers need high solid content and dilutable products, our company can provide corresponding high solid content products and corresponding diluents according to the customer's specific requirements;
2. This product contains flammable components, please pay attention to fire prevention during transportation, storage and use.

Storage Conditions

To prevent premature polymerization due to the high reactivity of this product, keep it tightly sealed and store away from heat sources and direct sunlight. It is recommended to maintain storage temperature below 30 °C. Unused product should be promptly resealed and must not be left open. Under ventilated conditions at 25 °C, the product has a safe storage period of 6 months. Available packaging: 1 kg / 5kg / 25 kg per drum

Tips:SQ-720005 BOPP anti-scratch and wear-resistant UV oil, with good flexibility, uniform matteness and good soft touch feel.