SQ-710008 UV Transfer Self-healing Glue

Description

SQ-710008 one-component UV-curable adhesive is formed on the surface of PC, PET, TPU and other films through molds with various textures and structures. Small molds can be manually transferred to the film surface in batches, or roller transfer with a more automated, high-capacity structure can be used, or textured film transfer can be used. It is mainly used for texture decoration and shell molding of products such as mobile phone films, laptop screen protectors, home appliances, etc. The product has the characteristics of good demoulding performance, high gloss, high leveling, good repairability in seconds, anti-UV aging, anti-scratch and wear resistance.

Technical data

Test items	Test Data
Appearance	Transparent liquid
Viscosity (25ºC, CPS)	350-650
UV component (%)	100
Density (g/cm³, 25ºC)	1.03±0.05
Hardness (1Kg force load)	HB-H
Boiling performance (surface spray paint, no primer 100℃/60min)	Adhesion 5B, no change in coating
Coating thickness (μm)	10-25
Bend and fold	10 times folding without cracking
Curing energy (mercury lamp, mj/cm²)	600-1000
QUV resistance	More than 500h
Slippery degree	Well

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

Performance

Good self-healing performance

Good resistance to yellowing and good transparency

Good flexibility, low shrinkage and good stretchability.

Applications

Protective film texture decoration and shell molding for mobile phones, laptops, home appliances and other products.

Construction technology

1. Clean the material surface.
2. Pour the glue into the metal mold, fit the TPU or PET to the metal mold, and use a glue stick to squeeze the surface of the material so that the glue can expel air bubbles and achieve better leveling. Make sure that the bonding parts are covered with glue.
3. Use ultraviolet light with a wavelength of 265 or 395 nanometers. When irradiating, keep the UV lamp as close to the glue as possible to speed up the curing.
4. Tear off the PC or PET from the metal mold. At this time, the adhesive layer is completely peeled off and stuck to the surface of the PC or PET.
5. If the adhesive layer is not completely cured, you can continue to use ultraviolet light until the adhesive layer is fully cured.

Construction steps

Unwind → Glue on specially treated release film → Mold rolling → UV curing → Demold → Rewind → Printing ink, etc. → Cutting → Forming → Injection molding → Peel off the surface polyester film → Spray hardened coating

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. The 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(25ºC) and under ventilation. 1KG/5KG/25KG/barrel

Tips:SQ-710008 has good self-healing properties, easy demoulding, and good adhesion to TPU.