

UV SPA-369 THICK LAYER CLEAR

(Thick Layer, High Gloss UV curable clear)

UV SPA-369 Thick Layer Clear is a UV curable screen printing clear. The fluidity of the clear is suitable for thicker applications and for high-speed cylinder printing glossy applications. Good transparency and excellent blocking resistance.

Applications	<ul style="list-style-type: none"> • Glossing various materials such as posters, calendars, catalogues, advertising printed matters, packaging, etc. • Thick layer and high gloss finish
Special Features	<ul style="list-style-type: none"> • Suitable for both thick layer and glossy application • Excellent blocking property, curing property, stencil stability, low and high speed printability • Excellent resistance to fingerprint, finger marks and hand mark adhesion. • Clear ink itself, as well as printed cure layer, has low odor, strong and broad adhesion. • Super gloss and excellent leveling property.
Substrate	<ul style="list-style-type: none"> • Oxidation polymerization type/UV Offset printing area • Soft & rigid PVC, PVC stickers, PC, papers, treated PET • Matte PP laminated • Screen Ink (UV FIL, Solvent type ink)
Dilution	<p>Not required.</p> <p>*For high-speed cylinder printing above 3000 shots/hr., thin with 5 to 10% of RE-829 REDUCER.</p>
Additives	<p>SM-269 DEFOAMER Less than 1% (If bubbling or cissing occurs)</p> <p>SM-301 FLOW AGENT Less than 1% (to improve leveling)</p>
Recommended Cleaner	Screen Cleaner L2
Mesh	<p>T 80 to 150 mesh (for thick layer) (Coverage is about 25 m²/kg at 100 mesh)</p> <p>T 270 to 300 mesh (for gloss) (Coverage is about 70m²/kg at 350 mesh)</p>
Drying/Curing	<ul style="list-style-type: none"> • Thick layer printing Accumulated light energy: 200 to 240 mJ/cm², Peak power: 350 to 400 mW/cm² (Eye Graphics UV integral light counter) Two 80W/cm metal halide lamps, height 15cm, belt speed 10 to 15m/min • Gloss printing Accumulated light energy: 100 to 200 mJ/cm², Peak power: 350 to 400mW/cm² (Eye Graphics UV integral light counter) Two 80W/cm metal halide lamps, height 15cm, belt speed 15 to 25m/min

Caution	<ul style="list-style-type: none"> • Checking adhesion before production: Adhesion may change depending on the substrates, processes, and printing. Be sure to check the adhesiveness before mass production printing. • Ink shelf life: 12 months from production date, unopened.
Safety	UN No.: Not classified in the definition UN Classification: Not classified in the definition
Handling	<ul style="list-style-type: none"> • Use safety gloves and eyeglasses to protect skin and eyes. If the ink comes in contact with skin, wash with soap and plenty of water (or lukewarm water) and consult with a doctor. • Containers should be closed tightly after use and stored in a cool and dark place. • SDS is available upon request. Please request a copy and read it carefully before handling the products.

Resistance

Test item	Test Conditions	Test results
Adhesion	Adhesion of Clear to various Oxidation polymerization, UV Offset Ink, Matt PP Laminates	No defect
Heat	After 72 hrs. at 80°C, leave for 1 hr., check appearance, adhesion and size	No defect
Humidity	After 240 hrs. at 60°C, 90%RH, leave for 1 hr. check appearance and adhesion	No defect
Cool-heat cycling test	80°C4hr~25°C1hr~-20°C4hr~25°C1hr、10 cycles, check appearance	No defect
Pencil Hardness	JIS K-5400	2 H
Punching	Cut with a punch, check cut edges.	No defect
Alcohol	Gakushin scrub tester, cotton soaked ethyl alcohol, weight 500g, 100 back and forth.	No defect
Solvent	Gakushin scrub tester, cotton soaked ethyl acetate, weight 500g, 10 back and forth, check ink layer	No defect
Bending	Bend tester, 1.5mm diameter, 180 degree folding, check appearance	No defect
Scrub	Gakushin scrub tester, cotton, weight 500g, 1000 back and forth, check appearance	No defect
Blocking	60°C 90% RH, weight 200g/cm ² , Check adhesion	No defect
Odor	Stack 10 sheets on the UV curing line, leave 5 min., sealed in a PP bag. Open after 72 hrs.	No smell
Weathering	Weather meter, 600 hrs., check appearance	No defect clear

*Test Conditions 【Substrate: Offset printed material on art paper 135kg】

【T 100 mesh(clear thickness 50μm)】

【80W/cm Two metal halide lamps, 15cm height, belt speed 15m/min】

*Above resistance test results are measured results in our laboratory and they are not guaranteed values.

*Information contained in this catalog may change without prior notice.

Revised: 2022.02.10.