DUV-1102

Solvent type UV hard coating

DUV-1102 is a transparent UV-curable coating which features quick UV curing and outstanding gloss, adhesiveness, and weather resistance.
This high hardness coating is suitable for surface protection of PET, PC, PVC, etc.

Usage	Hard coating for surface protection of PET, PC, and PVC

Specification

Paint type	Transparent UV-curable coating		
Product features	1. It show quick UV responsiveness. 2. It is a non-yellowing product featuring outstanding water resistance and chemical resistance. 3. It features outstanding adhesiveness to target material. 4. It features superior exterior look including gloss and leveling. 5. Its hardness prevents cracks during bending and curving processes.		
Solid content (%)	45	Exterior	Transparent
Viscosity (Ford cup #4, 25 ℃)	10 ± 0.5	Specific gravity (25 ℃)	0.97 ± 0.02
IR drying conditions	60 ℃, 1 - 2min	Curing conditions	300 mJ/㎠, metal halide/mercury lamp
Recommended coating method	Roll coating	Available solvent	MEK, MIBK, ethyl acetate, butyl acetate, etc.
Storage conditions	Store in a shaded indoor space with sufficient ventilation.	Shelf life	12 months

Product Properties (Physical Property Data)

Pencil hardness (1 kg)	F - H / Mitsubishi / PET
Erichsen	8 mm / No cracks
Penetrance	Over 90 % (Visible rays)
Adhesiveness	Room temperature 5B, boil resistance 5B (4 um coating on PET, Nichiban CT-24, ASTM D3002 class)

How to Use

How to Use	1. Cleaning of target surface: When surface cleaning is necessary, use an appropriate solvent to remove oil and debris on the surface. 2. Static electricity and dust removal: Treat the surface using an air shower or ionizer to prevent dust collection or static electricity on the surface. 3. Residual contaminants may result in defective film exterior and adhesion. 4. UV-curing conditions A UV lamp is either an electrode type or no electrode type. For an electrode-type UV lamp, a metal halide lamp or a high-voltage mercury lamp is recommended. More superior surface and film exterior can be achieved when nitrogen reflux is possible within the UV curing device. If the light is not intense enough, surface tack may occur or steaming or defective adhesion may result at high temperature.
Note	1. It contains substances harmful to skin and body. Wear a mask and protective gears prior to work. (For more details, refer to the MSDS.) 2. The product may deteriorate if exposed to natural light including sunlight, UV light (UV lamp), and work light (fluorescent light and incandescent light). 3. There is a possibility of deterioration or volume expansion when stored at above 30 ℃ for a long period of time. 4. Please use the product within its shelf life (12 months from the manufacturing date). There is a possibility of deterioration, precipitation, etc. when the product is stored for a long period of time. Please inquire the customer service center if you want to use a product that has been stored for a long time.

▶ The data shown above were obtained under the laboratory conditions, and the product properties may vary depending on work method and circumstances. Please refer to the property data listed above only as reference.