

UV ink

UV 161 EX Series

“UV 161 EX Series” is a succeeding product of “UV 161 GX Series”, the well-balanced ink that excels in both properties, curing & adhesion. “UV 161 EX Series” could apply to a wide variety of substrates. “UV 161 EX Series” is one of your best choices for the label attached to the electric appliances, office equipment, and auto parts where require strong resistance.

■ Features

- Excellent curing property and adhesion.
- Applicable to a wide variety of substrates, paper, synthetic paper, and well-treated metalized paper.
- Applicable to both printing system, sheet-fed offset and letterpress
- Conforms to Toxic Substances Control Act, The United States of America
- Benzophenone free formula
- 4 process colors and opaque white are available

■ General properties

Color	Lightfastness		Heat Resistance	Soap Resistance	Solvent Resistance
	Masstone	Dilution			
PROCESS YELLOW	4~5	3	4	5	5
PROCESS MAGENTA	4~5*	3*	4	2	4
PROCESS CYAN	8	7	5	5	5
PROCESS BLACK	7~8	7	5	5	5
OPAQUE WHITE	8	7	5	5	5

Evaluation: Lightfastness 8(excellent)⇔ 1 (poor); Other Resistances: 5(excellent)⇔ 1 (poor)

*: Lightfastness deteriorates significantly when getting wet with water.

■ Test method

Lightfastness: Evaluate the lightfastness of printed matter by Fade-O-Meter. Classify the resistance on a scale from 1 to 8 based on the exposure time and the degree of fading. “Masstone” were tested without dilution, and “Dilution” by diluting them 5 times in a trans white.

Heat Resistance: Expose printed matter to 150 degrees (Celsius) heat in a drying oven for 10 minutes. Classify the resistance on a scale from 1 to 5 based on fading.

Soap Resistance: Applied 10% soap gel at 20~25 degrees (Celsius) to printed matter for 1 hour. Classify the resistance on a scale from 1 to 5 based on the degree of fading and bleeding in the soap gel.

Solvent Resistance: Immersed printed matter for 24 hours in a mixture of toluene and acetone in a 1:1 ratio at 20-25 degrees (Celsius). Classify the resistance on a scale from 1 to 5 based on the degree of fading and bleeding in the mixture.

■ Handling Instruction

- Do not expose to direct sunlight.
- Store in a cool dark place.
- To adjust the hardness of the ink, add "UV DG REDUCER" as tack adjuster up to a maximum of 5% or "No.2 UV CONTEX J" as shortening compound up to a maximum of 15%. Adding excessively deteriorate the curing property.
- Suitable for post-press finishing, such as foil stamping, lamination under certain condition. Pre-test and confirm before proceeding with the actual job.
- Adhesion might deteriorate in case the printed matter gets wet including condensation.
- When handling, please beware of fire, keep the work area well ventilated and avoid UV rays/direct sunlight. Please wear suitable protective equipment to prevent inhalation or contacting with eyes, skin, or clothes. When you get an ink stain on the clothes, please wash out the clothes immediately and changing the clothes to avoid contact with dirt for a long time. After handling, please wash your hands and gargle well.
- In case the ink contact with eyes, please rinse it immediately with plenty of water for at least 15 minutes and seek medical attention from an ophthalmologist. In case the ink contact with skin, please wash out the clothes/shoes, wash the contacted part with soapy water and then rinse with plenty of water. If you have skin irritation or itching, please seek medical attention, and get medical care.