

## Additives

### UV Primer

"UV Primer" series UV primers were developed for preprinting on stocks, such as PP films, PET films, and vapor deposited papers, to which UV inks and UV varnishes do not adhere well. Further, this series is also utilized to improve ink transfer and printing quality of stocks lacking these properties. The series offers four types of primers with varying degree of adhesiveness to poor adhesive stocks.

#### ■ Features

- ▶ Adheres well to poor adhesive stocks.
- ▶ Preprinting by UV primer enables use of good printability UV ink.
- ▶ Improves transferability of ink or varnish used for over printing
- ▶ It resembles medium and is easy to handle.
- ▶ Applicable to offset printing. (Except "UV Primer TK")
- ▶ Less yellowing.
- ▶ Excels in trapping property.

#### ■ Product Grades

Product Name	Features	Adhesion To Stocks	Inks Recommended For Overprinting
UV Primer No.9	Excellent printability and curing properties. L Carton type inks can be used for overprinting.	Weak	L Carton, 161, VNL
UV Primer No.7	General purpose. Works well with stock as well as overprinting ink.	Medium	161, VNL
UV Primer KW	Best adhesion among the types useable for offset printing.	Strong	VP, STP
UV Primer TK	Offers the best adhesion to stocks, but its suitability to dampening water is poor and cannot be used for offset printing.	Strongest	161, VN, VP

※Attention...Adhesiveness may reverse due to affinity with stocks used.

- ▶ The data contained herein are based on the results of the tests conducted in accordance with the in-house test methods, and are not standard values. Always conduct pre-use tests to ascertain the suitability of the product to your requirements. Nothing contained herein is to be construed as a recommendation for use in violation of any patents, applicable laws or regulations. It is the responsibility of the user to comply in all respects with applicable laws and regulations.
- ▶ Owing to product improvement the information contained herein may be modified without any prior notice.
- ▶ Make sure to read MSDS thoroughly before using the product.

## ■ Usage

Once "UV Primer" is applied to entire surface or image part of a substrate, cure it, just as the one printed by UV inks is cured, with a UV lamp. (Confirm primer's adhesion at this point once.) Then, print with UV ink or UV varnish. If "UV Primer" is printed inline, make sure to use a UV lamp of sufficient UV irradiation power between the units for curing.

## ■ Handling Instructions

- ▶ Make sure to not only check adhesion between stock and the primer, but also between the primer and the UV ink to be used for overprinting, prior to use.
- ▶ [UV Primer No.9], [UV Primer No.7] and [UV Primer KW] can be used for dry offset printing, resin letterpress printing as well as offset printing.
- ▶ As a criterion, use 1.0 gram of UV Primer to coat one square meter. Adherence to stock or ink varies according to the amount of coating.
- ▶ Aim to carry out UV ink printing within 3 days of printing with UV Primer. The adherence of overprinting ink to primer worsens with the passage of time. However, pay attention that adhesion varies depending on curing condition of UV primer and the storage condition of printed material. In case overprinting ink does not adhere well, use UV ink of better adhesion property.
- ▶ It is designed such that it can be used as it is, however, if tack needs to be adjusted use "UV DG Reducer" (within 5%) for diluent. Do not use "No.2 UV Contex" as it causes adhesion to deteriorate.
- ▶ This ink is designed as a primer, and so it does not come with physical properties like rub and scratch resistances.



2007/04/01 No.W-1

- ▶ The data contained herein are based on the results of the tests conducted in accordance with the in-house test methods, and are not standard values. Always conduct pre-use tests to ascertain the suitability of the product to your requirements. Nothing contained herein is to be construed as a recommendation for use in violation of any patents, applicable laws or regulations. It is the responsibility of the user to comply in all respects with applicable laws and regulations.
- ▶ Owing to product improvement the information contained herein may be modified without any prior notice.
- ▶ Make sure to read MSDS thoroughly before using the product.