

## UV Varnish

### UV Coating Varnish HTA-W

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"UV Coating Varnish HTA-W", a UV curing gloss varnish, was developed to give a glossy overcoat to UV inks. It can be used with both on-wet as well as on-dry coaters. Besides general applications it can also be used as a para embossing UV varnish.

#### ■ Features

- ▶ Excels in drying property.
- ▶ Enables printed material of excellent gloss.
- ▶ Enables high whiteness (contains fluorescent whitening agent).
- ▶ Low odor.
- ▶ Highly suitable for foil stamping and gluing.
- ▶ Less prone to getting fingerprints on.
- ▶ Excels in resistance to rub, solvent and various other factors.

#### ■ Properties

Physical : Pale yellow transparent liquid

Viscosity : Approximately 250mPa · s (ICI Viscometer 25°C)

: Approximately 28sec (Zahn Cup #4 25°C)

Non-volatile content : 100%

Fire Service Law : Hazardous material type 4, type 3 petroleum product (Hazardous Class III)

#### ■ Usage

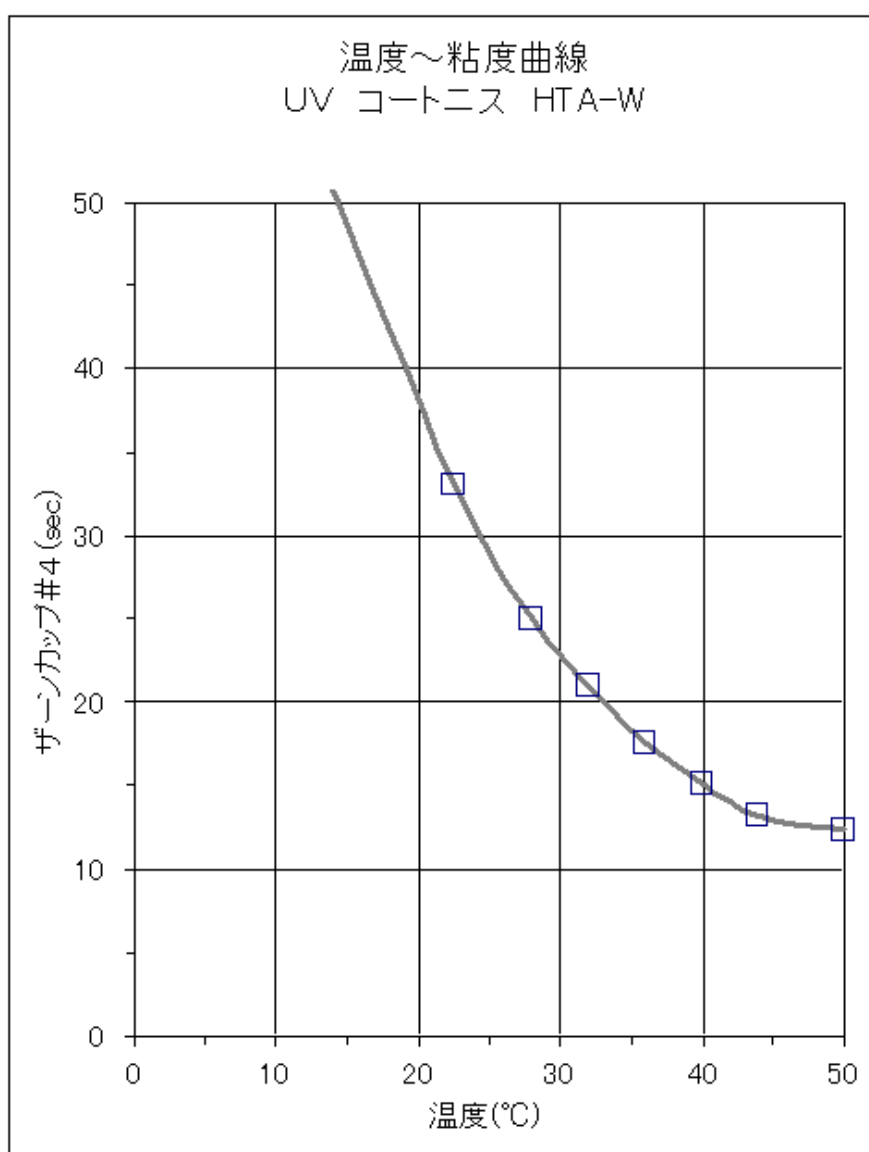
- ▶ Use UV inks for under print.
- ▶ It can be used for on-wet or on-dry applications by inline or offline coaters.
- ▶ Adjust viscosity by regulating temperature of varnish tank, and as a guideline, viscosity of varnish at the time of use should be: 15-20sec by Zahn Cup #4 (varnish temperature: 32-38°C).
- ▶ For printing materials, use resin letterpress plates or offset printing blankets.
- ▶ Use our product "UV HJK Proof Printing Varnish" for under-printing when utilizing for para embossing.

#### ■ Handling Instructions

- ▶ Do not expose to direct sunlight. Moreover, store in cool and dark place (below 30°C).
- ▶ Stir well prior to use.
- ▶ It does not adhere well to certain stocks and under-print inks. Confirm suitability prior to use.
- ▶ Physical properties of "HTA-W" are affected by the printing conditions. Before proceeding, make sure to test required physical properties (adhesiveness, smoothness, blocking resistance, etc.) on a printed material printed

by the machine to be actually used. Pay special attention to the following conditions, which can make it easy for blocking to occur.

- When printing on paper coated on both sides.
  - When applied to PP laminate side.
  - When stored in a place of high temperature and high humidity.
  - When stored under high load.
- ▶ This type especially considered of pasting, hot stamping. But you must execute the pre-test to check there is no problem beforehand.
- ▶ It contains fluorescent whitening agent. Confirm the suitability to your end product's requirement prior to use.
- ▶ Leaving a non-absorbent stock print outdoor, or exposing it to water (including dew) causes adhesiveness to deteriorate to the extent that the printed object will peel-off even by a nail scratch.
- ▶ It is developed to not cause any adverse effects on human body. However, in case of some people, leaving the varnish on body or clothes for long time may cause rash. Wear protective gear when handling, and wash your hands after completing the job.



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- ▶ 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.