

## UV Varnish

### UV Coating Varnish TH-3

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"UV Coating Varnish TH-3", 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.

#### ■ Features

- ▶ Excels in drying property.
- ▶ Excellent gloss.
- ▶ Low odor.
- ▶ Superb lightfastness.
- ▶ Excels in resistance to rub, solvent and various other factors.
- ▶ Highly suitable for foil stamping and gluing.

#### ■ Properties

Physical : Pale yellow transparent liquid

Viscosity : Approximately 300mPa · s (ICI Viscometer 25°C)

: Approximately 30sec (Zahn Cup #4 25°C)

Non-volatile content : 100%

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

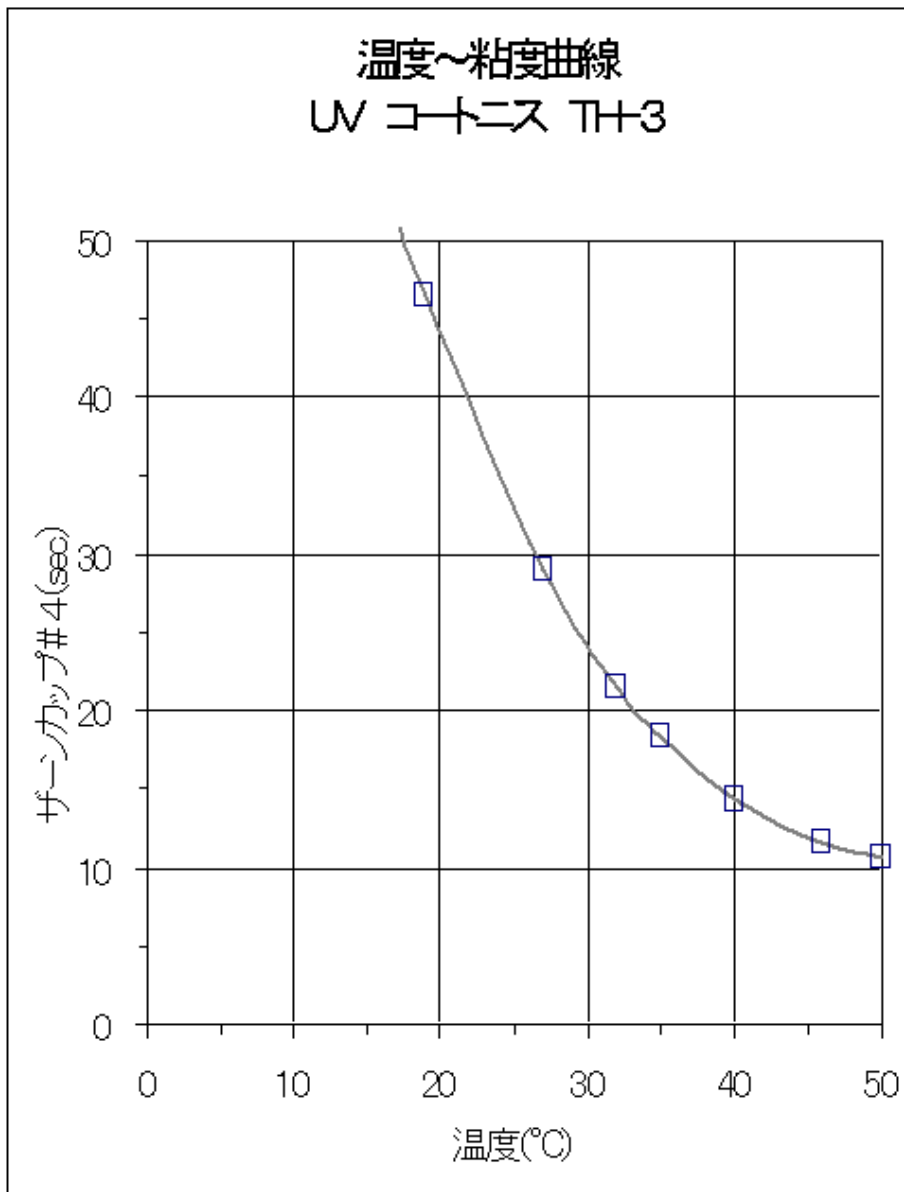
#### ■ Usage

- ▶ 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.
- ▶ As a guideline, viscosity of varnish at the time of use should be: 15-20sec by Zahn Cup #4 (varnish temperature: 33-39°C).
- ▶ For printing materials, use resin letterpress plates or offset printing blankets.

#### ■ 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 "TH-3" 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.
- ▶ It is designed to enable post print processing, such as gluing and foil stamping, however, suitability is affected by usage conditions. Conduct pre-use tests to determine the adhesiveness to glue or foil to be used.
- ▶ 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.