

# TOYOINK

# EXCURE 20000Y

# CHARACTERISTIC

The inks of Excure 20000Y series show very good adhesion on all possible closed substrates.

#### PROPERTIES

- Good adhesion
- ← Excellent film lamination properties
- ↔ Good 'post-curing' rate
- The Excure 20000Y series contains carefully selected raw materials to minimise the risk of skin irritation and causes as little odour as possible. It does not contain raw material listed on CEPE or TSCA exclusion list
- Optimal resistance properties will be obtained 24 hours after printing
- Formulated without benzophenone
- Formulated without ITX

# APPLICATION AREA

- ☑ Letterpress
- ☑ Wet offset

#### UV CURING SPEED (with 3 lamps of 120 W/cm)

→ 300 m/min or 9000 sheets/hour (the reactivity is also influenced by the substrate, the condition of the lamps, the condition and adjustment of the reflectors, the thickness of the ink layer, colour, etc.)

#### SUITABLE SUBSTRATES (surface tension see 'Recommended treatment levels')

- High gloss paper and board
- B Hard and soft vinyls (corona treated)
- Coated metals
- Pre-treated plastic films (polyester, acetate)
- Pre-treated PP films (e.g. for IML labels) Preliminary adhesion tests are recommended

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#### AVAILABLE COLOUR SHADES

- Process colours
- Mixing system
- Opaque white
- Other colours: on request

# **REFERENCES EXCURE 20000Y**

|                                     |           | IWS | Alcohol | Nitro | Alkali | Heatres. |
|-------------------------------------|-----------|-----|---------|-------|--------|----------|
| <u>Process colours – wet offset</u> |           |     |         |       |        | 10'      |
| Yellow                              | EXC20001Y | 5   | +       | +     | +      | 180 °C   |
| Magenta                             | EXC20002Y | 5   | +       | +     | -      | 170 °C   |
| Cyan                                | EXC20003Y | 8   | +       | +     | +      | 220 °C   |
| Black                               | EXC20004Y | 8   | +       | +     | +      | 220 °C   |
| Lightfast process inks              |           |     |         |       |        |          |
| Yellow                              | EXC20021Y | 7   | +       | -     | +      | 160 °C   |
| Magenta                             | EXC20022Y | 7   | +       | +     | +      | 180 °C   |
| <u>Base Inks</u>                    |           |     |         |       |        |          |
| Mixing white                        | EXC20900Y |     |         |       |        |          |
| Opaque white                        | EXC20901Y |     |         |       |        |          |
| Transparent white                   | EXC20902Y |     |         |       |        |          |
| Opaque White                        | EXC27032  |     |         |       |        |          |
| Yellow                              | EXC20912Y | 5   | +       | +     | +      | 180 °C   |
| Yellow fast 6                       | EXC20913Y | 6   | +       | +     | +      | 220 °C   |
| Yellow IWS 7                        | EXC20914Y | 7   | +       | -     | +      | 160 °C   |
| Warm yellow                         | EXC20916Y | 5   | +       | +     | +      | 220 °C   |
| Orange                              | EXC20920Y | 5   | +       | +     | +      | 140 °C   |
| Orange fast                         | EXC20921Y | 7   | +       | +     | +      | 220 °C   |
| Warm red                            | EXC20930Y | 3   | +       | +     | -      | 180 °C   |
| Warm red fast                       | EXC20931Y | 7   | +       | +     | +      | 220 °C   |
| Red 032 IWS 7                       | EXC20933Y | 7   | -       | -     | +      | 170 °C   |
| Rubine red                          | EXC20940Y | 5   | +       | +     | -      | 170 °C   |
| Rubine red fast 6                   | EXC20941Y | 6   | +       | +     | +      | 180 °C   |
| Rubine red fast 7                   | EXC20942Y | 7   | +       | +     | +      | 200 °C   |
| Rhodamine red fast 7                | EXC20951Y | 7   | +       | +     | +      | 180 °C   |
| Purple fast*                        | EXC20953Y | 7   | +       | +     | +      | 220 °C   |
| Violet fast                         | EXC20961Y | 7   | +       | +     | +      | 220 °C   |
| Reflex blue                         | EXC20962Y | 4   | -       | -     | -      | 150 °C   |
| Reflex blue fast*                   | EXC20963Y | 7   | +       | +     | +      | 220 °C   |
| Blue 072 fast*                      | EXC20965Y | 7   | +       | +     | +      | 220 °C   |
| Cyan                                | EXC20970Y | 8   | +       | +     | +      | 220 °C   |
| Green                               | EXC20980Y | 8   | +       | +     | +      | 220 °C   |
| Black                               | EXC20990Y | 8   | +       | +     | +      | 220 °C   |

\*These inks should not be used for mixings, as they are already built up out of other base inks.

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# REMARKS

- ★ To improve scuff resistance of non-laminated surfaces, UV-overprint varnishing is recommended.
- ★ Cleaning: it is not necessary to wash the press immediately after printing. The Excure 20000Y series will not cure in the press and is therefore ready to use for the next day's printing. However, the ink may start to cure in the press if sunlight or UV-light from the bulbs / UV-lamp is allowed to shine on the ink.
- ★ Shelf life: the Excure 20000Y series has a 12-month shelf life guarantee. This guarantee covers 12 months from the date of manufacture (which is mentioned on the label). In order to give this guarantee, certain recommendations must be followed: the Excure 20000Y series should be kept on stock at temperatures between 15 20°C and they should not be exposed to direct sunlight or heat. If possible, store the ink in a dark room
- ★ Rollers: the following roller material is recommended: EPDM (Ethylene-Propylene-Diene-Monomers). EPDM rollers show excellent performance with UV-inks. They are not suitable for conventional inks, since they will swell considerably in contact with aliphatic hydrocarbons, which are used in traditional offset inks
- ★ Certain Metallic UV-inks may cause swelling of EPDM rollers
- ★ Nitril rubber: nitril rubber rollers show minimal swelling with UV-inks and conventional inks. Solvents such as glycol and acetates do have a tendency to make this rubber swell. Nitril rubber is recommended when using two component metallic inks.
- ★ Letterpress plates: the Excure 20000Y series can be used together with the majority of the marketed letterpress plate materials. The best results are achieved by using soft plates for solids and harder plates for line, text and process work.
- ★ As wet offset series with improved curing and scratch resistance, we recommend EXC20051Y-54Y.

# PACKAGING

- 1 kg plastics packed in card board boxes of 10 or 20 kg packed in palbox of 140 kg palletbox of 225 kg palletboxx of 360 kg
- 3 kg plastics packed in card board boxes of 12 or 24 kg packed in palbox of 180 kg palletbox of 270 kg palletboxx of 504 kg
- $\Box$  10 kg pails
- □ 200 kg barrels
- □ 300 kg containers

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# **ADDITIVES**

| Fountain additive   | pH 5                    | EXC10900 |  |  |  |  |  |
|---|-------------------------|----------|--|--|--|--|--|
|   | pH 4.8                  | EXC10910 |  |  |  |  |  |
| <ul> <li>Wash-up solution</li> </ul>                      | for manual washing      | EXC10810 |  |  |  |  |  |
|   | for automatic washing   | EXC10800 |  |  |  |  |  |
|   | labelling and reg. free | EXC10820 |  |  |  |  |  |
| <ul> <li>Antitack paste*</li> </ul>                       |                         | EXC10001 |  |  |  |  |  |
| Photoinitiator  | liquid*                 | EXC10704 |  |  |  |  |  |
| ♦ Thinner   | ·                       | EXC10705 |  |  |  |  |  |
| * A - left march view in some soft for all we also minute |                         |          |  |  |  |  |  |

\* Ask for advice in case of food packaging.

#### RECOMMENDED TREATMENT LEVELS (DYNES / CM)

|             |       | PE | PP | PVC | PET | PS | PVDC | PU | ABS | PTFE | Silicone |
|-------------|-------|----|----|-----|-----|----|------|----|-----|------|----------|
| Litho       | Min.: | 40 | 40 | 36  | 44  | 42 | 42   | 38 | 42  | 38   | 38       |
|             | Max.: | 50 | 50 | 52  | 56  | 50 | 52   | 52 | 52  | 52   | 52       |
| Letterpress | Min.: | 42 | 40 | 40  | 46  | 42 | 42   | 42 | 45  | 42   | 40       |
|             | Max.: | 54 | 54 | 52  | 60  | 58 | 54   | 56 | 52  | 60   | 56       |

# PRODUCT SAFETY

This varnish (or these inks) is (are) **NOT** suitable for **FOOD applications** unless a proper risk assessment proves that its use is safe (e.g. if the process rules out the possibility of set-off in the reel or stack AND if the design of the final printed article ensures reliable functional barrier properties to migration). For further information please contact our local sales team or www.toyoink.eu.

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