



# EXCURE 20000M FOOD

## CHARACTERISTIC

The inks of Excure series 20000M FOOD show very good adhesion on all possible closed substrates with low odour and low migration properties and are suitable for metal decorating (inks with \*\*).

## PROPERTIES

- ☞ Good adhesion
- ☞ Excellent film lamination properties
- ☞ Good 'post-curing' rate
- ☞ Good gloss, high colour strength
- ☞ The Excure 20000M FOOD inks contain carefully selected raw materials to minimise the risk of skin irritation and causes as little odour as possible. It does not contain raw materials listed on of TSCA exclusion list. All raw materials are in compliance with the EUPIA exclusion policy.
- ☞ Low odour and low migration properties
- ☞ 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
- ☞ 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

Substrates may differ in their chemical structure or method of manufacture. A test for suitability must always be carried out before printing. Antistatic, Mould Release Agents and Slip Additives may have negative effects on adhesion, and should be detected and removed prior to printing.

## AVAILABLE COLOUR SHADES

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

## REFERENCES EXCURE 20000M FOOD

		IWS	Alcohol	Nitro	Alkali	Heatres. 10'
<b><u>Process colours – wet offset</u></b>						
Yellow	EXC20001M**	5	+	+	+	180 °C
Magenta	EXC20002M**	5	+	+	-	170 °C
Cyan	EXC20003M**	8	+	+	+	220 °C
Black	EXC20004M**	8	+	+	+	220 °C
<b><u>Lightfast process inks</u></b>						
Yellow	EXC20021M	7	+	-	+	160 °C
Magenta	EXC20022M	7	+	+	+	220 °C
<b><u>Base Inks</u></b>						
Opaque white	EXC27838					
Mixing white	EXC20900M**					200 °C
Opaque white	EXC20901M**					200 °C
Transparent white	EXC20902M**					200 °C
Yellow	EXC20912M**	5	+	+	+	180 °C
Yellow fast 6	EXC20913M**	6	+	+	+	220 °C
Yellow IWS 7	EXC20914M	7	+	-	+	140 °C
Warm yellow	EXC20916M**	5	+	+	+	220 °C
Orange	EXC20920M**	5	+	+	+	140 °C
Orange fast	EXC20921M**	7	+	+	+	220 °C
Warm red fast	EXC20931M**	7	+	+	+	220 °C
Rubine red	EXC20940M	5	+	+	-	170 °C
Rubine red fast 6	EXC20941M	6	+	+	+	170 °C
Rubine red fast 7	EXC20942M**	7	+	+	+	200 °C
Rhodamine red fast 7	EXC20951M**	7	+	+	+	180 °C
Purple fast*	EXC20953M**	7	+	+	+	220 °C
Violet fast	EXC20961M**	7	+	+	+	220 °C
Reflex blue fast*	EXC20963M**	7	+	+	+	220 °C
Blue 072 fast*	EXC20965M**	7	+	+	+	220 °C
Cyan	EXC20970M**	8	+	+	+	220 °C
Green	EXC20980M**	8	+	+	+	220 °C
Black	EXC20990M**	8	+	+	+	220 °C

\*\* These inks are suitable for metal decorating, taking into consideration the temperature resistance

## 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 20000M FOOD inks 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 2000M inks have 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 STERAPLAST FOOD inks 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.
- ★ Certain Metallic UV-inks may cause swelling of the 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 20000M 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.

## PACKAGING

- 3 kg cans

## ADDITIVES

- ◆ UV Silicone additive EXC10005
- ◆ UV Anti-blocking additive EXC10007
- ◆ Wash-up solution for manual washing EXC10810 (for ink rollers and plates)
- for automatic washing EXC10800 (for ink rollers and plates)
- labelling and reg. free EXC10820 (for ink rollers and plates)
- waterbased EXC10860 (for dampening system)
- ◆ Photoinitiator liquid for inks EXC10045 (depth cure)
- liquid for inks EXC10060 (surface cure)
- ◆ Thinner EXC10705

## 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

## OTHER INFO

These inks and/or coatings (this ink and/or coating) are (is) only suitable for use on the non-food contact side of food packaging, provided they are applied using the relevant Good Manufacturing Practices (GMP) and according to the guidelines in this Technical Data Sheet.

The printer, converter and packer/filler each have a responsibility to ensure that the finished – printed - product is fit for the intended purpose(s) and that the ink and coating components do not migrate into the food at levels that exceed legal, regulatory and industry defined requirements.