

# TECHNICAL GUIDE

YUPOTAKO & YUPOJELLY

## OFFSET PRINTING RECOMMENDATIONS

Not all YUPOTAKO offset versions have the same printing surfaces.

YUPOTAKO WKFS 340 and WKFS 240 are also suitable for printing with conventional paper inks in addition to foil inks.

The new YUPOTAKO Flex XAD 1095 was primarily developed for UV offset printing with UV inks suitable for foils. Product suitability must be tested prior to production with other offset technologies.

YUPOJELLY requires a UV drying unit for successful printing.

1. Open the ream wrapper with the label facing up. The printing side of the exposed sheets is now at the top.
2. Acclimatise YUPOTAKO under pressroom conditions for at least 24 hours before unpacking. Please store YUPOTAKO with the printing side facing up (!).
3. The ideal pressroom conditions are relative air humidity: 50-60%, temperature: 20-25°C.
4. Please treat the material with special care to prevent the release liner from peeling off, especially when feeding the material into the system.
5. Use either paper printing inks or suitable foil inks. Ink type and ink film thickness influence drying time. For UV inks, please make sure that the ink series is suitable for foils. UV offset printing can lead to an increase in electrostatic charge. Please always first carry out a test.
6. For printing on YUPOTAKO WKFS 340, set the contact pressure to 250 m, because YUPOTAKO is very compressible.
7. Use as little dampening water as possible. Since the YUPOTAKO surface cannot absorb moisture to the same extent as paper, an excessive supply of moisture will cause the dampening agent to build up on the printed sheet, which will progressively disrupt ink acceptance or adversely affect the drying process after printing. We therefore recommend reducing dampening in all units to such a degree that the print begins to scum/smear. You then gradually increase the dampening again until the scumming/smearing disappears. For print jobs with low area coverage, it can be increased by placing an "ink acceptance strip" at the edge of the sheet. This achieves a more stable ink-water balance.
8. Special applications require special inks (for example for increased light stability). Dispersion varnishes and UV coatings achieve better abrasion and wear resistance.
9. When using anti-set-off spray powder, your experience with coated art papers can serve as a guide. The particle size of the powder should be 15-25 µm.

## OTHER PRINTING RECOMMENDATIONS

### UV SCREEN PRINT

YUPOTAKO XAD 1069 & XAD 1095

YUPOJELLY XAD 1062, XAD 1068 & XAD 1090 LITE

For YUPOTAKO and YUPOJELLY, use UV inks. To avoid pressure marks, reduce suction air supply to a minimum. Tape over the printing table to optimise the vacuum in the printing area. When printing with UV inks, give YUPOTAKO and YUPOJELLY enough time to cool before printing the next colour.

### UV DIGITAL

YUPOTAKO XAD 1069 & XAD 1095

YUPOJELLY XAD 1062, XAD 1068 & XAD 1090 LITE

The above types are compatible with most UV digital inkjet printers on the market, with the exception of UV gel printers. Depending on ink application and machine type, the release liner may form a slight wave after printing. This does not adversely affect adhesive properties. A preliminary test is recommended for LED UV.

### WATER-BASED INKJET

YUPOTAKO WKJ 250

YUPOTAKO WKJ 250 is designed for inkjet printing with water-based pigmented inks. Pigment-based inks can stain and cause drying problems. Applying a large amount of ink can under certain circumstances slow down the ink's drying process. Either reduce the amount of ink or allow for a longer drying time.

### ECO-SOLVENT INKJET

YUPOTAKO XAD 1082

YUPOTAKO XAD 1082 is designed for inkjet printing with low-solvent and eco-solvent inks. YUPOTAKO XAD 1082 is not suitable for printing with conventional solvent inks. Applying too much ink can under certain circumstances slow down the ink's drying process. Either reduce the amount of ink or allow for a longer drying time. An additional dryer is recommended.

### LATEX

YUPOTAKO XAD 1082

YUPOJELLY XAD 1068 & XAD 1090

YUPOTAKO XAD 1082 and YUPOJELLY XAD 1068, XAD 1090 are suitable for printing with HP Latex printers. The current profiles and settings can be found in the HP Latex Media Locator (<https://www.printos.com/ml/#/mediator/latex>).

## FURTHER PROCESSING

### LAMINATION

The print image must be completely dried/cured before laminating YUPOTAKO. Use a laminate foil that meets the protection requirements of the end application. In combination with a floor laminate YUPOTAKO is suitable for use as a floor banner. Please contact us to ask about tested and recommended laminates.

### HOT LAMINATION

Reduce temperature and contact pressure as much as possible. Cold lamination is more suitable. The lamination foil should have excellent adhesive properties. Please carry out a test first. A laminated YUPOTAKO sticker may exhibit curling after removal.

### DIE-CUTTING

The punching dies and knives must be sharp and free from grooves to avoid tearing. All internal corners and cut ends should be rounded off. Please always punch from the printing side. The punching die design should be as simple as possible. Please avoid sharp corners (round off if possible) to avoid tearing.

### KISS-CUTTING

The release liner on the back is thin. The spacers must be adjusted very carefully and accurately. Kiss-cutting YUPOTAKO and YUPOJELLY requires sufficient experience. Please carry out tests first. Kiss-cutting process must be checked regularly to guarantee good quality. Keep a sufficient distance (> 3-4 mm) between the individual punching dies. When kiss-cutting WKFS340, we recommend that you use a Heidelberg Tiegel, because the press and the counter-pressure body each form a flat surface. This ensures more accurate cutting depths.

### LASER-CUTTING

YUPOTAKO and YUPOJELLY can be cut punched. A preliminary test is recommended.

### DIGITAL DIE-CUTTING AND PLOTTING

YUPOTAKO and YUPOJELLY can be cut with digital die cutters and cutting plotters.

### CUTTING

If you use jumbo rolls (~ 300 m), please trim both edges before printing. On request we can also supply rolls that have already been trimmed. When cutting sheets, make sure you use small stacks to ensure an accurate cutting edge.

## NOTES

### HEAT RESISTANCE

YUPOTAKO's and YUPOJELLY's working temperature is -30°C to +60°C. If the intended mounting place is below 0°C (eg. a freezer) mounting must be done at room temperature. Afterwards, a drop in temperature is not a problem and does not affect adhesive strength.

### APPLICATION

Please thoroughly clean the surface to which YUPOTAKO and YUPOJELLY are applied.

YUPOTAKO and YUPOJELLY are not suitable for the following:

- Uneven or curved surfaces.
- Safety glass. The thermal insulation can cause the glass to shatter.
- Screens. It may damage the screen.
- Outdoor use, for example, as a vehicle sticker.
- Long-term application on ABS, Acrylic, PVC and Polycarbonate surfaces.

A white residue may remain after removal of YUPOTAKO. Any residue can be simply wiped off with a damp cloth.

### HANDLING, TRANSPORT AND STORAGE

To avoid fingerprints causing printing problems, please wear gloves when handling YUPOTAKO and YUPOJELLY.

YUPOTAKO and YUPOJELLY are very sensitive, compressible products that must not be rolled up tightly, as this can cause creases. The only way to ship rolled YUPOTAKO and YUPOJELLY is by using a roll core with a diameter of 7.6 cm. YUPOTAKO and YUPOJELLY must otherwise only be shipped lying flat.

To store YUPOTAKO after an application, it must be reapplied to its release liner (or similar material) to avoid the material sticking together.

YUPOJELLY is reusable to an extent. It can be re-applied, but please make sure the adhesive back does not get dirty after removal.

After opening, store YUPOTAKO and YUPOJELLY in its packaging and avoid exposure to direct sunlight.



## YUPOTAKO® - A NEW TEMPTATION FOR THE CREATIVE APPETITE

Tako means octopus in Japanese. Because of its adhesive-free micro suction structure, YUPO Tako sticks to flat surfaces just like an octopus and leaves no sticky residues upon its removal. YUPOTako is reusable: simply clean the micro suction side with water if the grip is weakened by dust or dirt.

VERSION YUPOTAKO	THICKNESS µm	GRAMMAGE g/m <sup>2</sup>	ROLLS mm × m	CORE mm	SHEETS mm × mm	UNIT per ream	PRINT METHODS
WKFS 340	320	220,0			640 × 450 640 × 900 1020 × 720	100	Sheet-fed offset, Screen print
WKJ 250	220	156,0	610 × 20, 914 × 20 1067 × 20 1270 × 20	76 76 76			Water-based inkjet
WKO 280 OUTDOOR	280	199,0	1270 × 20 1270 × 75 1270 × ca. 400	76 76 152	460 × 320 1020 × 720	100	UV inkjet, UV offset, HP Indigo
XAD 1057	272	190,0			210 × 297 (A4)	100	Office inkjet
XAD 1058	240	170,0	970 × approx. 400	152	460 × 320 720 × 520	250	Xeikon 3000 series, HP Indigo
XAD 1069	210	166,0	1270 × 20 1270 × 75 1270 × approx. 300	76 76 152			UV screen print, UV digital
XAD 1072 BLOCKOUT	325	223,0			1020 × 720	100	Sheet-fed offset, Screen print
XAD 1076 BLOCKOUT	228	166,0			460 × 320 720 × 520	250	Xeikon 3000 series, HP Indigo
XAD 1077 LASER	233	254,0			210 × 297 (A4) 320 × 460	100	Laser
XAD 1082	245	175,0	1270 × 20 1270 × 50 1270 × approx. 300	76 76 152			Latex, Eco-solvent inkjet
XAD 1095 FLEX	197	160,0	1270 × 20 1270 × 75 1270 × approx. 800	76 76 152	1020 × 720	100	UV offset, UV screen print, UV digital, HP Indigo
XAD 1099 LASER MATT	199	198,0			210 × 297 (A4) 320 × 460	100	Laser



## YUPOJELLY® - THE CLEAR SOLUTION

YUPOJelly is the clear solution for window stickers. Due to the clear microstructure on the reverse side that sticks to any flat surface without adhesives or bonding agents, YUPOJelly stickers are easy to apply and easy to remove.

VERSION YUPOJELLY	THICKNESS µm	GRAMMAGE g/m <sup>2</sup>	ROLLS mm × m	CORE mm	SHEETS mm × mm	UNIT per ream	PRINT METHODS
XAD 1062	170	220,0			1020 × 720	100	UV digital, UV offset, UV screen print
XAD 1068	178	235,0	1270 × 20 1270 × 75 1270 × approx. 300	76 76 152			UV digital, UV screen print, Latex
XAD 1090 LITE	135	200,0	1270 × 20 1270 × 75 1270 × approx. 300	76 76 152	1020 × 720	100	UV digital, UV offset, UV screen print, Latex