AVAILABLE TYPES

TYPE	THICKNESS MICRON	GRAMMAGE g/m²	PRINTING METHODS
WKFS 340	320	220	Sheet-fed Offset / Silkscreen
XAD 1069	210	166	Screen printing and UV Digital
WKJ 250	220	156	Waterbased Inkjet
XAD 1082	245	175	Eco solvent Inkjet
XAD 1058	240	170	HP Indigo
XAD 1057	272	190	Office Inkjet
XAD 1077	233	254	Laser / UV Offset / UV Inkjet

AVAILABLE SIZES FOR SHEETS

TYPE	SIZE	PACKAGING
WKFS 340	1020 × 720 mm, 640 × 900 mm, 640 × 450 mm	100 sheets per ream
XAD 1058	460 × 320 mm	250 sheets per ream
XAD 1057	210 × 297 mm (A4)	100 sheets per ream
XAD 1077	450 x 320mm, 420 x 297 mm (A3)	100 sheets per ream

AVAILABLE SIZES IN ROLLS

TYPE	SIZE
XAD 1069	1270 mm × 20 m, 1270 mm × approx. 300 m
WKJ 250	1270 mm × 20 m, 1067 mm × 20 m, 914 mm × 20 m, 610 mm x 20 m
XAD 1082	1270 mm × 20 m, 1270 mm × approx. 300 m

TECHNICAL GUIDEBOOK

YUPOTAKO®

ADHERES WITHOUT ADHESIVES ON SMOOTH SURFACES

YUPO®

1 INSTRUCTIONS FOR USE AND WARNINGS

YUPOTako®'s operating temperature is between **-30°C to +60°C.** However, at temperatures below freezing, mounting must be performed at room temperature. After that, dropping of the temperature is not a problem and has no effect on the force of adhesion.

SURFACE CLEANING

PLEASE CAREFULLY CLEAN THE SURFACE THOROUGHLY BEFORE APPLYING YUPOTAKO®.

Especially for large applications, the surface to be glued should be very smooth, ensuring a high adhesion.

In some cases, a white residue can occur after the removal of YUPOTako®: any remaining residues can simply be wiped using a damp cloth.

Not suitable for mounting on uneven surfaces.

NOT RECOMMENDED FOR OUT-DOOR APPLICATION OR AS VEHI-CLE STICKERS.

DO NOT GLUE!

DO NOT MOUNT YUPOTAKO® ON SAFETY GLASS. THE GLASS CAN SHATTER DUE TO THE THERMAL INSULATION.

SAFETY GLAS
DO NOT GLUE!

DO NOT MOUNT YUPOTAKO® DI-RECTLY ON DISPLAY MONITORS. IT CAN DAMAGE THE SCREEN.

DO NOT GLUE!

YUPOTako® is a very sensitive, **compressible product and should not be rolled up tightly**, to prevent creases. A roll core with a diameter of 7.6 cm offers the only option for shipping YUPOTako® rolled up. Otherwise, YUPOTako® should only be shipped lying flat.

INSTRUCTIONS FOR STORAGE AND HANDLING

To **prevent** printing problems caused by **fingerprints,** always wear **gloves** when dealing with YUPOTako®.

After opening, store YUPOTako® only in closed packaging. Prevent direct sunlight.

If YUPOTako® is to be stored **after an application,** place it back on the **carrying paper** (or similar material), to prevent the material from sticking together.

2 OFFSET PRINTING

1. The printing side of YUPOTako® WKFS 340 is marked with a white indicating label.

2. **Acclimatize** YUPOTako® under printing room conditions for at least **24 hours prior to unpacking.** Please store YUPOTako® with the printing side face up (!).

3. The ideal printing room conditions are: **relative humidity: 50-60%, temperature: 20-25 °C.**

4. Please treat the material with special care to prevent re-moving of the carrier material. Especially when loading the material into the system.

5. Use either paper printing inks or appropriate foil inks. The ink type and thickness of the coating affect drying time. For UV inks, use only suitable ink series for synthetic material. UV offset printing can lead to increased electrosta-tic charge. Please always perform a test in advance.

6. Set the **contact pressure at 250 µm,** because YUPOTako® is very compressible.

7. Use **only as little as possible damping water.** Because the surface of YUPOTako® can absorb moisture not to the same extent as paper, with excessive intake a build-up of the dampening material occurs on the printed sheet, so that ink acceptance is diminished little by little, or the drying process is affected negatively after printing. Therefore we recommend to reduce the dampening in all print units that the printing begins to "smear / smudge". Then the dampening must be increased slightly, until the "smearing / smudging" disappears. For printing tasks with low cove-rage, this can be increased with the placement of an **"ink absorption bar"** at the edge of the sheet. A more stable **ink water balance** is achieved.

8. Special applications require special inks (such as for increased light-fastness). **Dispersion or UV-varnishes** create better scratch and abrasion resistance.

9. When using **anti set-off powder,** you can generally go by your experience with illustration printing paper. The **particle size** of anti set-off powder should be **15-25 µm.**

XAD 1069 SCREEN PRINTING
Use either **conventional or UV inks** for YUPOTako® XAD 1069.

To prevent indents **minimize the suction air supply.** Seal the printing table to optimize the vacuum in the printing area. If you are printing with UV inks, give YUPOTako® XAD1069 enough time to cool down before you print the following colour.

3 DIGITAL PRINTING

XAD 1069 UV INK JET
YUPOTako® XAD 1069 is compatible with the most UV-inkjet digital printing machines on the market. Depending on the application of ink and depending on the type of machine it may cause a slight waveing of the carrier material after printing. The adhesion properties are not affected hereby.

WKJ 250 WATERBASED INKJET
YUPOTako® WKJ 250 is designed for inkjet printing with wa-ter-based pigmented inks. Dye-based inks can cause drying problems and patching. High area coverage causes a slower ink drying under certain circumstances. Reduce the inking or consider a longer drying time.

XAD 1082 ECO-SOLVENT INKJET
YUPOTako® XAD 1082 is designed for inkjet printing with low-solvent and eco-solvent inks. YUPOTako® XAD 1082 is not recommended for commercially available solvent inks. High ink coverage causes a slower ink drying under cer-tain circumstances. Reduce the inking or consider a longer drying time.

XAD 1082 LATEX INKJET
YUPOTako® XAD 1082 is not designed for Latex printing. However, a good result can be achieved with the right machine settings. Ask your paper merchant or YUPO® Europe for re-commended machine settings.

## 4 FURTHER PROCESSING

LAMINATION RECOMMENDATION
The print must be completely dried or hardened, before you laminate YUPOTako®. Use a lamination film, which meets the protection requirements of the final application.

HOT LAMINATION
Reduce the temperature and the pressure as far as possible. **Cold lamination is better suited.** The lamination film should have adhesive properties as high as possible to ensure good adhesion. Please perform appropriate tests in advance. If lami-nated YUPOTako® will be removed from the mounting place, under certain circumstances, curvatures may occur with YUPOTako®. YUPOTako® is suitable for use as **floor banner.** Please contact us for tested and recommended laminates.

CUTTING
The cutting dies and knives must be sharp and free of notches to prevent tearing.
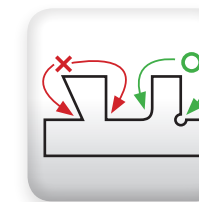
ALL INSIDE CORNERS AND CUT ENDS SHOULD BE ROUNDED. PLEASE ALWAYS PERFORM ALL CUTTINGS FROM THE PRINT SIDE. THE DESIGN OF THE DIE SHOULD BE AS SIMPLE AS POSSIBLE.

RIGHT
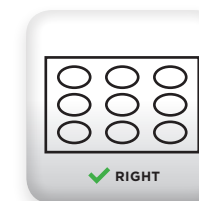
PLEASE PREVENT SHARP COR-NERS (ROUND OFF WHERE POS-SIBLE) TO PREVENT TEARING.

DIE-CUTTING
The liner is very thin. The spacers must be adjusted very carefully and accurately. Experience is necessary for cutting YUPOTako®. Please carry out advance testing. The cutting process must be checked regularly to ensure a good quality. Keep enough **distance** between the individual dies **(> 3-4 mm).** Do not use magnetic cutting boards. With **die-cut-ting** using WKFS340, we recommend to use the **"Original Heidelberger Tiegel",** because both the press form and the counter-pressure form build even surfaces. Thus ensuring more accurate cutting depths.

DIGITAL DIE-CUTTING AND PLOTTING
YUPOTako® can be cut with digital die cutters and cutting plotters.

LASER CUTTING
YUPOTako® can be used with laser cutting.

CUTTING
If you use jumbo rolls (~ 300 m), please perform edge trim-ming on both sides before printing. Of course, trimmed rolls are available on request. When cutting sheets, make sure to process **small stacks,** to ensure an accurate cutting edge.