

11 UA31 UV Ink - USPs

- Colour set: CMYK + White + Varnish
- UV All-round ink :
 - ❑ Compatible with a comfortable selection of both roll as well as rigid substrates
 - ❑ Flexible & limited stretch capacity ⁽¹⁾
- Compatible with laminates intended for UV ink ⁽²⁾ for protection against UV-Rays, weathering and mechanical wear ⁽³⁾
- Broad substrate compatibility (see separate slide)
- Outdoor life expectation against UV rays: 2 Years ⁽⁴⁾
- Excellent white density
- Comfortable curing levels for low density areas as well as for multi layer output
- Excellent resistance to edge chipping and flaking: Suited for post treatment like trimming and/or cutting

⁽¹⁾ Stretching for wrapping application requires lamination & heating. The ink will not stretch at room temperature.

⁽²⁾ Laminates intended for UV inks typically promote non-silvering.

⁽³⁾ Successive cycles of expansion and shrinkage because of temperature variations, water-film between media and ink ... may cause UV ink to detach from the target substrate

⁽⁴⁾ Excludes weathering & mechanical wear

11 UA31 UV Ink - ESPs

- Future proof ink design philosophy : NVC-Free (See separate slide)
- Low odour in the working environment
- Health & Safety
 - ✓ No hazardous ingredients with biological limits established by the region specific regulatory bodies
 - ✓ Under the category of UV inks, UA31 inks carry a mild label
 - ✓ Typical precautions for UV ink are applicable (No skin contact ...)
- VOC : 0.5% (Before curing)
- Shelf life: 12 months



11 UA31 LED UV Ink – NVC free !

- N-Vinyl Caprolactam (NVC) - CAS Number 2235-00-9 benefits from a temporary exemption for digital inks
- NVC is already banned in screen printing inks since June 2015 !
- UA31 UV ink features a future proof ink design taking into account the latest H&S evolutions
- NVC-free ink ensures both a Health & Safety as well as commercial advantages, since many UV inks from competition are still linked to “old school” UV ink formulations
- Competitive advantage : NVC free requires a formulation from the ground up → Not obvious for competition to adopt fast



NVC-FREE
















11 UA-31 LED UV Ink

Substrate Compatibility

- Self-adhesive PVC - White & Non-White (Monomeric, Polymeric & Cast)
- PVC sheet
- PVC foam board
- PVC-coated banner
- HIPS (High Density Polystyrene)
- Polycarbonate (PC)
- Fluted polypropylene (PP) board
- Melamine
- ABS
- Aluminium sandwich board
- PETG Board
- PMMA (Cast & Extruded Plexiglas)
- Glass^(*) & Mirror glass
- Ceramic tiles^(*)
- Raw steel sheet
- Fluo board (cardboard)
- Wood board







^(*) Results on challenging substrates like glass, ceramics ... are easily influenced, depending on supplier, production treatment/top coating, lamp settings ... Individual testing & fine-tuning is required. Applications for decorative purposes are feasible.

11 UA-31 LED UV Ink Printer Compatibility

Printer Model	UA31	US11	UH21
VJ-1638UR2			
VJ-1638UH2			
H200			
F200 - F300 - F400			
XPJ-461UF / XPJ-661UF			

11 UA-31 LED UV Ink

Positioning next to US11 and UH21

Ink feature	UA31	US11	UH21
White Density/Opacity	High	Normal	Normal
Required Curing Energy	Reduced	High	High
Media Compatibility	All-Round	Focus on flex	Focus on rigid
Lamination possibility			
NVC-Free			
Shelf Life	12 Months	Mix 12/15/18 months	12 months