

Ax-Series i-Pulse white UV curing ink

2WT848 is a white ketone based UV curing ink giving excellent solvent resistance. It can be printed onto a wide variety of substrates, e.g. epoxy printed circuit boards (PCB's), polyethylene, PVC cables etc.

This Ax-Series i-Pulse white UV curing pigmented ink can be printed onto a wide variety of substrates, e.g. epoxy Printed Circuit Boards, polyethylene, PVC

cables, metals and glass. After printing it must be exposed to high intensity ultra violet light which changes the chemical structure to achieve excellent resistance to a wide variety of solvents e.g. MEK, trichloroethane, dichloroethane, etc..

This ink is suitable for use at operating temperatures from 5°C to 35°C

Key features

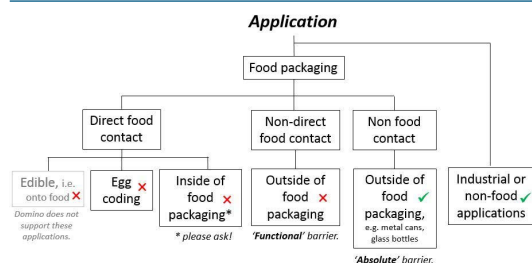
- UV curing white pigmented ink
- Once cured this ink achieves excellent rub resistance and solvent resistance
- Suitable for printing onto many different substrates, e.g. epoxy printed circuit boards (PCB's), polyethylene, PVC cables, glass etc



Product overview

Ax-Series i-Pulse white UV curing ink

Approvals & Certifications



The compliance of equipment with RoHS & WEEE (Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU, including annex II amendment Directive (EU) 2015/863 and Waste Electrical and Electronic Equipment (WEEE) Directive 2012/19/EU) is unaffected by codes printed with this ink.

This ink is not designed for food packaging applications. This ink does not conform to Swiss Ordinance SR817.023.21, nor is it manufactured to EuPIA GMP standards.

If unclear about the suitability of this ink in a given application, please refer to your local Account Contact who will escalate via Channel Support as needed.

Part number and packaging

	Part number	Container	Quantity	Shelf life
Ink	IC-2WT848	Cartridge (0.825 litre)	Each	6 months
Make-up	MC-2WT848-4	Cartridge (1.2 litre)	Case of 4	24 months
Wash	WL-200 or WL-210	Bottle (1litre)	Each	24 months

Printer compatibility

Ax350i, Ax550i i-Pulse Printhead	3 and 6 metre conduit	60 and 75 micron nozzles.
i-Tech module	Type 3 module	ITM life 6 months

Storage and operational environment

Storage and transportation	Temperature: 5°C to 35°C	Humidity: 10%-90% RH non-condensing
Printer running environment	Temperature: 5°C to 35°C	Humidity: 10%-90% RH non-condensing

End user properties

This white UV curing ink gives excellent rub and solvent resistance once fully cured. On a range of substrates this ink has a light fastness Blue wool rating of 7-8.

- After printing, a few seconds must be allowed for the solvent to evaporate.
- The print is then exposed to a UV lamp with a spectral output that should overlap with the spectral absorption characteristics of the photo initiator(s) – for this ink we recommend a standard undoped medium pressure mercury lamp which is described as an 'H' bulb by Fusion.
- Peak intensity - the UV light must be sufficiently intense to cure the base of the ink film ('through' cure) as well as the surface ('surface' cure). Based on general experience we suggest a minimum lamp power of 80W/cm to ensure proper 'through' cure.
- Cure dose in mJ/cm² - this is normally measured on the actual printing line by passing a dosimeter under the lamp at normal line speeds. It therefore takes into account all the process variables such as the power of the lamp, the working efficiency (focus, lamp age etc.), the length of the cure tunnel and the line speed. We recommend a cure dose of at least 1000mJ/cm².
- This ink is based on cationic curing chemistry which means that after the initial curing reaction under the UV lamp there is some degree of post-cure. The full resistance properties of the cured film require 24 hours to develop e.g. resistance to more aggressive solvents."

Supporting documentation

Safety Data Sheets	SDSs for all supported jurisdictions / languages are available through the SDS link on the Domino website home page.
Technical Data Sheets	A TDS for the ink is available on the My Domino MSIP portal.

Quality Assurance

Domino always recommends that only Domino fluids are used in Domino printers. All Domino fluids are fully tested in Domino printers to assure optimum levels of performance throughout the specified operational envelope. All Domino fluids should be used within their rated Shelf Life.