

UV Tech 105.000

Code A311105000

PRODUCT DESCRIPTION

Ultraviolet curing ink with glossy finishing.

APPLICATION FIELDS

Labels, Household appliances, Sports Equipments, Habitat, Helmets, Promotional, Toys and Visual.

This product is extremely versatile and multipurpose.

APPLICATION PROCESS

Substrates	PAPER, PVC, PET, PS, ABS, PES, PC, PMMA, PRE-VARNISHED METAL, GLASS* AND METAL*
Th/Cm	From 77 to 165 Th/cm
Emulsion	See the product range table
Squeegee	Square edge Squeegee hardness 70-85 Shores
Curing	UV lamps from 80 to 120 W/cm Carpet speed: 15-20 m/min Power: at least 250 Mj/cm ²
Thinners	Reactive Thinner 100.900 (code A31810090000...) Max. 10%
Auxiliaries	Concentrated Photoinitiator UV 100.978 Max. 5%
Adhesion promoters	Adhesion Promoter 100.835 (code A318100835001) Max. 5% UV Adhesion Promoter 772 (code A318100972001) Max. 10%
Levelling agent	Levelling 90.970 (code A31890970000) max. 2%
Cleaning	Solvent LQ 90.920
Storage	If kept in a dark place, in its original sealed package, at a temperature of 20-25°C, the product has a shelf-life of about 1 year.
Packaging	See the product range table
Safety data sheet	Available upon request

*For printing on glass and metal, the addition of UV adhesion promoter 772 is required

GENERAL FEATURES

- Excellent opacity
- High glossy level
- Excellent chemical resistance
- No edge-curling
- Good adhesion onto different materials

CERTIFICAZIONI



The inks of the UV Tech 105.000 series meet the requirements established by RoHS (Delegated Directive (EU) 2015/863 / EC) and by the EN71-3: 2019 - Migration of certain elements.

PREPARATION

Before using it, the ink must be mixed well and, in case, diluted, according to printing requirements. In case that viscosity reduction is needed, it is possible to add up to 10% Reactive Thinner 100.900.

TECHNICAL FEATURES

The performance of the product, printed with a 150 th/cm screen, is 70-80 m²/kg. These data are merely an indication, since they depend on the dilution, the substrate and the printing equipment. UV Tech has an outdoor resistance (inclement weather, sunlight) up to 2 years.

These data are highly influenced by the kind of substrate to be printed, the altitude, the geographical position and the air pollution.

The addition of high percentages of white or transparent base to the ink causes a substantial reduction in its light resistance.

SPECIAL RECOMMENDATIONS

- Always test the characteristics of the product, before starting production.
- The above information is the result of previous knowledge and experience; it is neither a guarantee or an assurance.
- When beginning printing, always check the right curing of the ink.
- In order to improve adhesion on polyolefin supports, you can add up to 5% of Adhesion Promoter 100835 (pot-life 4-8 hours).
- In order to improve adhesion on glass or metal, you can add up to 10% of UV Adhesion Promoter 772.
- In order to reduce ink viscosity, the use of Reactive Thinner 100.900 up to a maximum 10% is recommended.
- In order to increase the ink reactivity is recommended to add up to 5% Concentrated Photoinitiator UV 100.978 in the transparent and white inks.

PRODUCT RANGE

BLACKS AND WHITES

CODE	PRODUCT	PACK
A31110510100-	OPAQUE WHITE	1 and 5 kg
A311105110001	MATT WHITE	1 kg
A31110570100-	OPAQUE BLACK	1 and 5 kg

OPAQUE COLOURS

CODE	PRODUCT	PACK
A311105201001	LEMON YELLOW	1 kg
A311105202001	CHROME YELLOW	1 kg
A311105301001	ORANGE	1 kg
A311105302001	SCARLET RED	1 kg
A311105303001	RED	1 kg
A311105343001	PINK	1 kg
A311105401001	COBALT BLUE	1 kg
A311105403001	ULTRAMARINE BLUE	1 kg

FOUR COLOUR PROCESS

CODE	PRODUCT	PACK
A311105297001	YELLOW PROCESS	1 kg
A311105397001	MAGENTA PROCESS	1 kg
A311105497001	CYAN PROCESS	1 kg
A311105797001	BLACK PROCESS	1 kg
A311105881005	TIXO GEL HV	5 kg

COLORMATIC BASES

CODE	PRODUCT	PACK
A311105100001	WHITE L (*)	1 kg
A311105P200001	LEMON YELLOW A	1 kg
A311105P202001	GOLDEN YELLOW B	1 kg
A311105P301001	ORANGE C	1 kg
A311105P302001	RED D	1 kg
A311105P303001	CARMINE E	1 kg
A311105P342001	PINK F	1 kg
A311105P404001	PERMANENT BLUE H	1 kg
A311105P440001	BRIGHT VIOLET G	1 kg
A311105P500001	PERMANENT GREEN K	1 kg
A31110570000-	BLACK M (*)	1 kg

(*) to be used only when mixed with COLORMATIC bases for the reproduction of shades with the COLOR-MATIC formulary.

OTHER PRODUCTS

CODE	PRODUCT	PACK
A31110580000-	TRANSPARENT BASE	1 and 5 kg
A311105850001	BRONZE BINDER	1 kg
A31110581000-	MATT VARNISH	5 kg

In order to prepare metal or fluorescent colours, it is possible to add pigments (code A31196000) to UV Tech 105.850 Bronze Binder A311105850001, according to the following percentages:

- 10-15% silver powder
- 15-20% golden powder
- 15-20% fluorescent pigment

IMPORTANT NOTE

The information given in this technical sheet is not intended to be exhaustive and any person, using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us of the suitability of the product for the intended purpose, does so at his own risk.

While we endeavour to ensure that all advice we give about the product is correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product.

Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage arising out of the use of the product.

The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

WARNING

This technical data sheet does not replace either the Safety Data Sheet or the specific Conformity Declaration. These documents may be required to our SHEQ (Product safety office), at the following e-mail address: safety@eptainks.com

The technical data sheet does not relieve the printer, who remains the only responsible of the respect of the regulations, the specifications and the related required certifications of the finished items.