

UV Flex

Code A311124000

PRODUCT DESCRIPTION

Ultraviolet curing ink with glossy finishing.

APPLICATION FIELDS

UV Flex is mainly used for printing of visual, sportswear, automotive, labels and visual.

This product is particularly indicated for four-colour process printing of vinyl substrates and banners for external use.

APPLICATION PROCESS

Substrates	Paper, paper for labels, PVC, banners, treated PES
Th/Cm	Max. 165 Th/Cm
Emulsion	<ul style="list-style-type: none"> • <i>Zero-in SV Plus Viola</i> • <i>Zero-in SRV</i>
Squeegee	Square edge Squeegee hardness: form 70 to 85 Shores
Curing	UV lamps from 80 to 120 W/cm Carpet speed: 15-20 m/min Power: at least 100 mJ/cm ²
Thinner	<i>Reactive Thinner 100.900</i> (code A31810090000...) Max. 10%
Auxiliaries	<i>Concentrated Photoinitiator UV 100.978</i> (code A318100978001)
Adhesion Promoter	<i>Adhesion Promoter 100.835</i> (code A318100835001) Max. 5%
Levelling Agent	<i>Levelling Agent 90.970</i> (code A31890970000) Max. 2%
Cleaning	<i>Solvent LQ 90.920</i>
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.
Package	See the product range table
Safety Data Sheet	Available on request

GENERAL FEATURES

- Excellent opacity
- High glossy level
- Excellent flexibility
- No shrinking and no edge-curling
- Heavy metal-free
- Compatible with application-tape

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 Flex* series has an outdoor resistance (inclement weather, sunlight) up to 2 years.

Four-colour process colours, on the contrary, have an outdoor resistance up to 5 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.

In case that an increase in ink reactivity is required, it is possible to add up to 5% *Concentrated Photoinitiator UV 100.978*.

SPECIAL INSTRUCTIONS

- 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 nor an assurance.
- When beginning printing, always check the right curing of the ink.
- In order to improve adhesion on such substrates, that are difficult to be printed, it is possible to add up to 5% *Adhesion Promoter 100.835*.
- In order to reduce ink viscosity, the use of *Reactive Thinner 100.900* up to a maximum 10% is recommended.

PRODUCT RANGE

BLACKS and WHITES

CODE	PRODUCT	PACK.
A311124101001	UV FLEX OPAQUE WHITE	1 kg
A31112470100-	UV FLEX OPAQUE BLACK	1 e 5 kg

AMC BASES

CODE	PRODUCT	PACK.
A311124100001	UV FLEX AMC WHITE	1 kg
A311124P200001	UV FLEX AMC PRIMROSE YELLOW	1 kg
A311124P202001	UV FLEX AMC CHROME YELLOW	1 kg
A311124P301001	UV FLEX AMC ORANGE	1 kg
A311124P302001	UV FLEX AMC SCARLET	1 kg
A311124P303001	UV FLEX AMC RED	1 kg
A311124P342001	UV FLEX AMC PINK	1 kg
A311124P404001	UV FLEX AMC BRIGHT BLUE	1 kg
A311124P440001	UV FLEX AMC VIOLET	1 kg
A311124P500001	UV FLEX AMC GREEN	1 kg
A311124700001	UV FLEX AMC BLACK	1 kg

FOUR-COLOUR PROCESS

CODE	PRODUCT	PACK.
A311124296005	UV FLEX TRICROMATIC YELLOW	5 kg
A311124396001	UV FLEX TRICROMATIC MAGENTA	1 kg
A311124496001	UV FLEX TRICROMATIC CYAN	1 kg
A311124796001	UV FLEX TRICROMATIC BLACK	1 kg
A311124886001	UV FLEX THIXOTROPIC GEL	1 kg

OTHER PRODUCTS

CODE	PRODUCT	PACK.
A311124850005	UV FLEX BRONZE BINDER	5 kg
A311124891005	UV FLEX OVERPRINT VARNISH NF	5 kg

In order to prepare metal or fluorescent colours, it is possible to add pigments (code A31196000) to *UV Flex Bronze Binder* A311124850005, according to the following percentages:

- 10-15% silver powder
- 15-20% golden powder
- 15-20% fluorescent pigment
- 3-5% mattifying powder

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.