

Novacure K

Code A31139000K

PRODUCT DESCRIPTION

Ultraviolet curing ink with glossy finishing

APPLICATION FIELDS

Novacure K is mainly used in Packaging and Flaconage printing.

APPLICATION PROCESS

Substrates	Treated PP, PE, HDPE, LDPE
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 200 mJ/cm ²
Thinner	<i>Reactive Thinner 100.900</i> Max. 10%
Auxiliaries	<i>Concetrated Photoinitiator UV 100.978</i>
Adhesion Promoter	<i>Adhesion Promoter 100.835</i> Max. 5%
Levelling Agent	<i>Levelling 90.970</i> 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 chemical resistances to alcohol and carburetants
- Excellent opacity
- Excellent adhesion onto the indicated materials
- Excellent water resistance, with the addition of the adhesion promoter
- Specific rheology for bottles

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. *Novacure K* series 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. In case that an increase in ink reactivity is required, it is possible to add up to 5% *Concetrated Photoinitiator UV 100.978* to transparent and whites, or *100.979* to colours.

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 achieve the best adhesion results, it is recommended that the material has a surface tension of at least 48 dyne/cm².
- Complete adhesion must be tested about 8 hours after printing.
- It is recommended to check chemical resistances 48 hours after printing.

PRODUCT RANGE

BLACKS and WHITES

CODE	PRODUCT	PACKAGE
A31139101K001	OPAQUE WHITE	1 kg
A31139103K001	EXTRA WHITE	1 kg
A31139701K001	OPAQUE BLACK	1 kg

OPAQUE COLOURS

CODE	PRODUCT	PACKAGE
A31139201K001	LEMON YELLOW	1 kg
A31139202K001	CHROME YELLOW	1 kg
A31139301K001	ORANGE	1 kg
A31139302K001	RED SCARLET	1 kg
A31139303K001	RED	1 kg
A31139304K001	RUBY RED	1 kg
A31139343K001	PINK	1 kg
A31139401K001	COBALT BLUE	1 kg
A31139403K001	ULTRAMARINE BLUE	1 kg
A31139440K001	VIOLET	1 kg
A31139540K001	GREEN	1 kg

OTHER PRODUCTS

CODE	PRODUCT	PACKAGE
A31139850K001	BRONZE BINDER	1 kg
A31139800K001	TRANSPARENT BASE	1 kg
A31139801K001	OVERPRINT VARNISH	1 kg

COLORMATIC

CODE	PRODUCT	PACK.
A31139100K001	WHITE L	1 kg
A31139700K001	BLACK M	1 kg
A31139P404K001	PERMANENT BLUE H	1 kg
A31139P500K001	PERMANENT GREEN K	1 kg
A31139P302K001	RED D	1 kg
A31139P303K001	CARMINE E	1 kg
A31139P342K001	PINK F	1 kg
A31139P202K001	GOLDEN YELLOW B	1 kg
A31139P440K001	BRIGHT VIOLET G	1 kg
A31139P200K001	LEMON YELLOW A	1 kg
A31139P301K001	ORANGE C	1 kg

In order to prepare metal or fluorescent colours, it is possible to add pigments (code A31196000) to *Novacure Bronze Binder A31139850K001*, 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.