

# FARBAUV-GLASS



## Fields of application

Universal free radical LED and conventional UV curing high gloss 2-component screen printing ink for the

- Printing of glass,
- Metal,
- Ceramics.

Substrates may differ in printability due to difference in surface properties hence preliminary trials are essential before printing.

## Application Process

Based to the high reactivity please avoid direct daylight.

Pre-Treatment :To achieve good ink adhesion onto glass, a flame, Pyrosil or UVITRO® pre-treatment of the glass surface is necessary.

Mesh count of 120-31threads/cm (305-31 threads/inch) should be used to achieve high opacity of ink ink.

Generally, screen printing meshes between 120-31and 165-27 threads/cm (305-31 and 420-27 threads/inch) are suitable.

A special product test is recommended prior to production.

This ink series can be used with all screen-printing machines with screen printing stencils currently in use in Industrial printing industry.

Squeegee material resistant to acrylic ester should be used.

## Characteristics

This 2-component UV screen printing ink cures under LED bulb and conventional UV curing bulb.

These inks are formulated for LED bulbs of wavelength of 395 nm.

Conventional UV curing bulbs which are Hg- or Fe -doped with a lamp power of 160 – 200 W/cm, UV dose 200mJ/cm<sup>2</sup> can also be used.

Final curing will depend on colour shade, UV bulb configuration, mesh count and transferred film weight.

No heating as post treatment is required after curing with UV-LED curing bulb.

Adhesion and scratch resistance can be achieved within a shorter time compared to conventional UV curing ink series with this ink.

For water and dishwasher resistance will be achieved fully after 72 hours(at room temperature).

Storage temperature should not be less than 21°C post curing effect will decrease, and optimum adhesion will not be achieved.

This ink is free from toxic elements and solvents.

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## Colors:

### Basic shades

FARBAUV-GLASS	
COLOUR SHADES	CODES
yellow	UV-205
yellow	UV-206
orange	UV-305
red	UV-306
pink	UV-307
violet	UV-506
blue	UV-507
green	UV-608
white	UV-100
opaque white	UV-101
black	UV-900
opaque black	UV-901
UV curing varnish	UV-0001

## Additives

### UV-Dilutant:

The inks are ready to use. If further viscosity reduction is desired, may be added. In order to increase curing, the addition of reactive thinner is recommended.

UV Dilutant DLT 1684

(max. addition 2-5%)

Reactive Thinner DLT 1680

(max. addition 4-8%)

### CATALYST

Adhesion modifier must always be added before printing for obtaining the optimum chemical and mechanical resistances.

Catalyst (std)

CAT 1571

(max. addition 4%)

Catalyst (special)

CAT

1575(max. addition 5-10%)

It must be noted that the maximum pot life of the ink mixed with adhesion modifier is approx. 8 hours at 21°C.

### Levelling agents:

These agents fix the ink pigments uniformly which enables to obtain uniform shade of desired colour. This additive can also reduce or eliminate the presence of pinholes.

Excessive addition should be avoided since high percentage can negatively influence printability. Adding more than the max. 1% may result in poor inter-coat adhesion between colours.

Levelling agent 0.5-1% EQS 211

### Cleaners:

Screens and squeegees as well as other working materials can be cleaned with the cleaner RFR 257 AND RFR 263.

### Shelf Life:

Shelf life depends upon the formula/reactivity of the ink system as well as the storage temperature.

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The shelf life for an unopened ink container if stored in a dark room at a temperature of 21°C is 12 months.



## Precautions:

UV inks may cause irritations and can increase the sensitivity of the skin which may lead to hypersensitivity. Hence use of disposable gloves and protective goggles is strongly recommended.

For further information on safety, storage and environmental aspects concerning these products please refer to Safety Data Sheet.

Addition Technical information can be obtained from our product safety department.

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