

Graphic Screen Outdoor Signage, Decals (Long Term)

INKS

UVIGLOSS UD

Long Term Decal UV ink for PVC Vinyls

Features

- UV Curing Inks
- Excellent Outdoor Durability
- High Gloss
- Excellent Chemical and Abrasion Resistance
- Only for PVC Vinyls and Flex
- Superior Flexibility

Substrate

Premium Pressure Sensitive Vinyls

TEST INKS ON SUBSTRATES
BEFORE PRODUCTION RUN

SERICOL
More than ink...Solutions.
FUJIFILM

Thinning

Uvigloss UD inks are supplied press ready and thinning is normally not required.

Mesh

Print the Uvigloss UD inks 140.34/cm to 165.34/cm, monofilament polyester fabric, depending on the application. UD-433 Overprint clear is designed to print through 120.34/cm to 140.34/cm mesh. For fine details & half tone printing, use amber or yellow coloured fabric.

Stencils

Stencils can best be prepared with Sericol's stencil making products:

- n Xtend Prep 101: for abrasion of screen
 - n Xtend Prep 102: for degreasing of screen
- Emulsions: Dirasol 132 single pack or Dirasol 915 two-pack.

Curing

15-20 metres per minute through 140.34 mesh with one 80 watt/cm² lamp for curing. For UD-433 Op clear is designed to cure with 300 watt/inch lamp at 15-20 m/min. Cure speeds are dependent on colours, film thickness, opacity and condition of the curing unit.

If undercure is experienced with any colour, demonstrated through wet film or loss of gloss, it is usually due to excess ink deposit. To correct this, the mechanics, such as mesh, squeegee, colour density, belt speed or the amount of UV energy must be changed.

Reduction of colour density is usually achieved by adding Mixing Clear UD-381 in the ink. Adhesion should be at least 80% immediately after curing and final adhesion developing after 4 hours.

Coverage

Uvigloss UD inks should give a coverage of 80-90 sq.m./kg, when printed through a 140/cm mesh.

Wash Up

Wash up screens with SS639 Universal Screen Wash. This will ensure long life of stencils made with Dirasol emulsions.

Outdoor Use

Uvigloss UD inks have been successfully tested for weathering in a QUV Weatherometer, as per ASTM

G53 test specification, using UVB-313 lamps. UV Gloss UD-433 enhance the outdoor durability when overprinted on UV based UVI Gloss UD inks. Vertically mounted to surface prints with UVI Gloss UD ink systems On a suitable long life substrates should not change colour Significantly during period of less than 5 years.

The Performance of Outdoor durability is depend on Various factors as mentioned some of key factors mentioned below

1. Ink/Overcoat Film thickness and degree of curing
2. Colour Formulation
 - Adding Large amounts of mixing clear or white To any colour.
 - Mixing several colours to achieve specific colour
3. Substrate Type and age
4. Mounting angle or directional orientation
5. Geographic location
6. Air Pollution
7. Exposure to excessive abrasion(for e.g, brush, Car washes)

Pre-Production Test

End-user must determine suitability of this product for the intended use prior to production.

Always test for adhesion and other properties before each production run because there can often be significant differences between substrates from different manufacturers and even between different batches.

Other plastics can become brittle or cause to curl after printing.

Storage

- Keep inks in a cool place, away from direct sunlight or extreme temperatures Keep lids tightly closed when not in use.
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- Any unused ink should not be returned to the can; must be stored separately.
- Shelf life is eighteen months from the date of manufacture, under storage at 0 C to 25 C
- Open the can and Stir for 5 minutes under moderate speed and leave 10-15 minutes for degassing.

Applications

The Uvigloss UD inks are widely used for Long term outdoor signage, POP display, Long Term decal, .

Colour Range

The Uvigloss UD Ink System includes Seritone Matching System colours, line colours, Set of trichromatic (halftone) colours and a UV curable overprint clear medium.

The Uvigloss UD-381 Mixing Clear is used for the following purposes:

- as a constituent of the Seritone Matching System
- for mixing with standard UD colours to promote transparency

Seritone Colour Matching System

This consists of 11 seritone colours that are suitable for intermixing to produce clean shades.

UD-010	Tinting Black
UD-030	Tinting White
UD-841	SMS EL Yellow (GS)
UD-843	SMS EL Mid Chrome (RS)
UD-802	SMS EL Deep Orange
UD-821	SMS EL Red (YS)
UD-864	SMS EL Red (BS)
UD-165	SMS Magenta
UD-127	SMS Violet
UD-230	SMS Blue
UD-325	SMS Green
UD-381	SMS Mixing Clear

For optimum light fastness in colour matched shades, the following recommendations must be observed:

The combined weight and proportions of by weight of UD-021 White , UD-030 Tinting white and UD-381 Mixing Clear does not exceed 80% of the total colour match mix.

The individual proportion of any one colour except Black is not below 5% of the total mix.

a) Uvigloss UD Special Colours

UD-021	White
UD-001	Black

Trichromatic (Halftone) Colours

Uvigloss UD Ink System consists of following trichromatic colours and Overprint Clear

a) Standard

UD-004	Trichromatic Black
UD-052	Trichromatic Yellow
UD-135	Trichromatic Magenta
UD-215	Trichromatic Cyan
UD-396	Trichromatic Ext. Base
UD-433	EL Overprint Clear

Colour Matches

Colour matches can be supplied against prints and / or wet ink.

Safety and Handling

The Uvigloss UD system:

- Is formulated to be free from any known or suspected toxic, carcinogenic, mutagenic or reprotoxic chemicals.
- Is formulated free from lead and other heavy metals.

Comprehensive information on the safety and handling of Uvigloss UD screen inks and solvents is given in the Material Safety Data Sheet, which is available on request.

Environmental Information

Uvigloss UD Ink System does not contain ozone-depleting chemicals as described in the Montreal Convention.

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Product Information sheet out of date and users are requested to ensure that they follow current recommendations



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Certification
No. QAC/0914/019

International Standards
Certification
No. EMS/0914/019

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