

Speciality **ink** Screen

**Long term Decals
Vehicle Graphics**

Super Decal SD SF

**Screen Inks for Long-Term
'Buried' & 'Unburied' Decals**

FEATURES

- Solvent Based
- High Gloss Finish
- PU / TSA Lacquer Compatible Ink System
- Long-Term Outdoor Durability
- Excellent Screen Stability & Self Solvency
- Suitable for Machine & Manual Printing
- Good Flexibility
- Good Stretchability
- Excellent Resistance to a Range of Solvents
- Seritone Colours & Process Colours
- Unlimited Colour Matching Capability
- Range of Metallics

Substrate :
Self adhesive vinyl

**TEST INKS ON SUBSTRATES
BEFORE PRODUCTION RUN.**

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Applications:

Super Decal SD inks are used for long-term decal applications - both 'buried' & 'unburied', e.g., in vehicle striping, dome label.

Outdoor Use:

Super Decal SD Ink System has been successfully tested for weathering in a QUV Weatherometer, as per ASTM G53 test specification, using UVB-313 lamps. All inks withstood 2000 hours and more without appreciable colour change. Metallic withstood 1000 hours. For weatherability test these prints were over coated with SD 425 two pack lacquer followed by OEM spray coating two pack PU/TSA applied lacquers.

Important: Super Decal SD inks and metallic must always be overprinted with SD-425 overprint clear for both 'buried' and 'unburied' applications. The same is applicable for conducting any tests on the prints with OEM spray coating two pack PU/TSA applied lacquers. Accelerated weathering tests cannot be precisely related to outdoor performance. The Super Decal SD ink system for both 'buried' & 'unburied' applications is expected to have an outdoor exposure durability of five years. Metallic and Colour matches containing any proportion of metallic would have lower outdoor durability.

In case of metallic colours to be printed on metallized PVC Vinyls or directly opaque Vinyl, it is advised to use SD-481 as a base coat as well as mixing clear and also overcoat on metallic shade before printing overprint clear SD-425.

Colour Range:

The Super Decal SD Ink System is lead free and silicon free. The system includes Seritone Matching System colours, trichromatic (process) colours, a metallic medium and a Two pack overprint clear.

Colour Matches:

The colour matches can be supplied against specimen prints and / or wet inks.

Metallics:

A wide range of metallics can be developed on request.

Line Colours:

SD-001	Super Decal SD Black
SD-025	Super Decal SD Ground Coat White
SD-127	Super Decal SD Seritone Violet
SD-164	Super Decal SD Seritone Red BS
SD-165	Super Decal SD Seritone Magenta
SD-191	Super Decal SD Seritone Red YS
SD-230	Super Decal SD Seritone Blue
SD-325	Super Decal SD Seritone Green
SD-382	Super Decal SD Metallic Medium
SD-383	Super Decal SD Extender Base
SD-802	Super Decal SD Seritone Orange
SD-821	Super Decal SD Seritone Red (Y/S)
SD-841	Super Decal SD Seritone Yellow (G/S)
SD-843	Super Decal SD Seritone Yellow (R/S)
SD-864	Super Decal SD Seritone Red (B/S)

Trichromatic (Halftone) colours:

SD-004	Super Decal SD Trichromatic Black
SD-052	Super Decal SD Trichromatic Yellow
SD-135	Super Decal SD Trichromatic Magenta
SD-215	Super Decal SD Trichromatic Cyan

Super Decal SD / SF Reducers:

SS 557	Reducer
SS 558	Slow Reducer (Retarder)
SS 639	Universal Screen Wash

Super Decal SF Satin Finish Seritone & Line Colours

SF-001	Super Decal SF Satin Black
SF-127	Super Decal SF Satin Violet
SF-165	Super Decal SF Satin Magenta
SF-230	Super Decal SF Satin Blue
SF-325	Super Decal SF Satin Green
SF-802	Super Decal SF Satin Orange
SF-821	Super Decal SF Satin Red (Y/S)
SF-841	Super Decal SF Satin Yellow (G/S)
SF-843	Super Decal SF Satin Yellow (R/S)
SF-864	Super Decal SF Satin Red (B/S)
SF-382	Super Decal SF Metallic Medium

Super Decal SD / SF Overprint:

SD-425	Super Decal SD Overprint Clear
SD-386	Super Decal Hardener
SD-426	Thinner
SD-481	Super Decal SD Mixing Clear / Base Coat / Metallic Overcoat used before SD-425

Two Pack, Solvent-based PU Overcoat

SD-425 Clear:

Mix SD Overcoat in the following way

1. SD-425 100 Phr
2. SD-386 (Catalyst) 10 Phr
3. SD-426 (Thinner) 10 Phr

Mix the above ingredient well, wait for 5-10 minutes, and then apply the overcoat.

Mesh: 77T

Drying: IR dry for 5 minutes@60°C, Bake it for 80°C for 1 hr

Squeegee: Medium

Substrate:PVC

Pot Life: Max. 6Hrs from mixing

Result: Cross Hatch Tape test will be done after 72 Hrs of Baking. Note: Do not put the remaining material left on screen in the SD-425 overcoat Tin.

Keep remaining material separately in other Can.

UV EL Overprint Varnish UD 433:

Mesh: 150T to 180T

Curing: 300 watts/15 meters

For more information on UD 433 please check the technical literature of UD 433

Product Resistance:

Super Decal SD inks & metallics, overprinted with SD-425 overprint clear medium, have excellent resistance to a wide range of solvents including xylene, petrol and alcohol.

Thinning :

Maximum of 15% by weight of ink used. Various options for thinning are available. Please refer to the section on Super Decal SD / SF Reducers.

Mesh :

Print the Super Decal SD inks & metallics through 62/cm to 90/cm, monofilament polyester fabric, depending on the application.

For SD-025 Ground Coat White: 77/cm to 90/cm mesh.

For SD-425 Overprint Clear: 77/cm to 90/cm mesh.

For fine details printing, use amber or yellow coloured fabric

Stencils :

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

Xtend Prep 101 for abrasion of screen

Xtend Prep 102 for degreasing of screen

Emulsions: Dirasol 132(single pack) or

Dirasol 915(two pack)

Wash Up:

Wash up screens with SS 639 universal screen wash. This will ensure long life of stencils made with Dirasol emulsions.

Coverage:

Super Decal SD inks should give a coverage of 60 to 70 sq.m./kg when printed through a 90/cm mesh.

Metallics & SD-425 should give a coverage of 40 to 45 sq.m./kg when printed through a 77/cm mesh.

Drying:

Air Dry: up to 20 minutes. Do not stack prints immediately. Allow sufficient time for through cure.

Jet Dry: 60 degree centigrade, for up to 4 minutes. Prints must be cooled to ambient temperature before stacking.

Pre-production Test:

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.

Also test for lacquer (PU/TSA) compatibility, weathering, inter-coat adhesion and other relevant properties before each production run.

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

Co-Use with Other Sericol Inks:

Super Decal SD Ink System must not be intermixed, overprinted or under-printed with any other Sericol Ink System. Super Decal SD inks are free of silicon. Hence all precautions must be taken to avoid silicon contamination during printing.

Storage :

- Keep inks in cool place, away from direct sunlight.
- Keep lids tightly closed when not in use.
- Any unused ink should not be returned to can, must be stored separately.
- Shelf life is two years from the date of manufacturing.
- Stir well before every use.

Safety and Handling:

Super Decal SD Ink System is formulated free from lead and any toxic (carcinogenic), mutagenic or reprotoxic chemicals. Comprehensive information on the safety and handling of Super Decal inks and solvents is given in the Material Safety Data Sheet, which is available on request.

Environmental Information:

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

Fujifilm Sericol India Pvt Ltd

- Has certification to the international Environmental Standard, ISO 14001.
- Is committed to minimizing the risk to users of our products, and also to minimizing the impact of our activities on the environment, from formulation through to production and supply.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reduce waste through better use of raw materials, energy, water, re-use and recycling.

Important Note:

The information and recommendations contained in this product information sheet as well as technical advice otherwise given by representative of our company, whether verbally or in writing, are based on our present knowledge and experience. Such information/ technical advice is given in good faith, but without warranty, in view of the many factors that may affect processes or applications 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 the products will meet fully the particular requirements of the labels/ brands/ agencies of their clients and also that no proprietary rights and existing laws and legislation are violated.

Our advice does not relieve processors from the responsibility of carrying out their own tests and experiments, nor does it imply any legally binding assurance in respect of properties or suitability for a specific purpose or of the legal status of the listed products.

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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