

DEK STANDARD ENGINEERING INSTRUCTION

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Screen Inks - Silchrome Series 65-00

DSi201

SILCHROME SERIES 65-00

Silchrome Series 65-00 inks are for the gloss decoration of most hard surfaces used for display panels, road signs, nameplates etc. The inks give a tough, high gloss film surface suitable for heavy handling, indoors or out.

EXCELLENT ADHESION

Silchrome inks have excellent adhesion to suitably enamelled metals, acrylic, hardboard and many common woods.

DURABILITY

By using the recommended stoving schedules, a tough Silchrome ink film can be achieved which will withstand scuffing and rigorous handling. The pigments used in Silchrome inks have been selected to have a rating of 7-8 on the Blue Wool Scale. In addition, accelerated weathering testes, conducted in accordance with BS3900 Part F3, indicate an expected outdoor life of approximately five years. A spraying overlacquer will give extra protection for even more demanding conditions.

COLOUR RANGE

A wide range of bright colours is available for attractive, eye catching designs. These standard colours are shown in the CSP Colour Card. The use of Ultra Blue 65-56 in blends is not recommended because of the possibility of pigment interaction. Otherwise, the colours are miscible.

CSP Colour	code	colour	code
Primrose	65-13	Royal Blue	65-59
Golden	65-15	Apple Green	65-63
Pale Orange	65-21	Emerald Green	65-65
Bright Orange	65-23	Permanent Green	65-68
Vermilion	65-31	Dark Green	65-71
Permanent Scarlet	65-33	Terracotta	65-74
Permanent Red	65-35	Black	65-75
Permanent Carmine	65-39	Air Drying White	65-801
Magenta	65-41	Stoving White	65-83
Amarath	65-46	Silver	65-88
Purple	65-47	Gold Medium	65-94
Fast Violet	65-49	Overprint Varnish	65-95
Turquoise	65-51	Process Yellow	65-14
Kingfisher Blue	65-52	Process Magenta	65-42
Azure	65-54	Process Cyan	65-53
Ultra Blue	65-56	Process Black	65-77
Permanent Blue	65-57		

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STOCK

Excellent adhesion of Silchrome can be achieved on a wide range of materials. However, many factors are involved, and users should satisfy themselves of the suitability of the system before commencing a print run.

PRINTING

Silchrome inks are formulated to be free of strong.

MATERIALS

Solvents and therefore all types of stencil and squeegee may be used. Monofilament nylon or polyester meshes of 49 to 110 threads/cm are recommended.

DRYING

Silchrome inks dry by oxidation and will normally air dry to a handleable state in 5-6 hours and will attain a higher degree of hardness if left to dry overnight. The full toughness of the Silchrome ink film can be achieved by stoving at a temperature of 115-120°C for 15-20 minutes. Higher temperatures should be avoided as they may cause discolouration or loss of gloss.

It is always advisable with oxidation drying inks to check that they are dry throughout the film before stacking prints. The surface of the ink dries first and this can be misleading. For the best results, prints should be left for 48 hours before applying an overlacquer. For multicolour work, air drying between workings is recommended, with a final stoving after the last colour or overlacquer has been applied.

INK ADJUSTMENT

Add up to 10% Silchrome Thinner 65-02 or Retarder 65-04, or a blend of the two, depending on the particular printing and drying conditions.

WASHING UP

Silchrome 65-00 inks should be washed up with Universal Screenwash 11-00 or Silchrome Thinner 65-02. Silchrome inks should be washed up immediately after the print run has been completed otherwise oxidation will commence and the ink will become difficult or impossible to remove.

COVERAGE

A coverage of 18-21 m/kg can be expected with Silchrome inks, provided standard thinning and mesh recommendations are employed.

SAFETY

Silchrome inks, thinner and retarder do not contain any solvents classified as harmful under EEC REGULATIONS and are free of control by the 1972 Highly Flammable Liquids Regulations. Detailed Health and Safety Data Sheets may be obtained from the supply source.

SUPPLIER

Coates Lorilleux Screen Products.

Cray Avenue, Orpington, Kent BR5 3PP

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