

SCREEN PRINTING INKS CP

APPLICATION

Screen printing inks CP are suitable for screen printing onto paper, cardboard, polystyrene and other thermoplastics such as rigid PVC, PVC adhesive foils and polycarbonate. However, due to different properties of the substrates, pretests are recommended.

CHARACTERISTICS

Screen printing inks CP are quick drying screen printing inks.

CP inks are of medium opacity and show a satin gloss finish. They are weather resistant and can be mixed with other plastic inks, such as CX, SG, HG, PK and PK-Jet. Ink mixtures with different ink types will partially change the properties of CP inks.

Thermoplastics printed with CP inks show good forming properties (deep drawing). Pretests are necessary as forming applications are different.

CP inks result in relatively rigid and brittle ink film. Multilayer printing followed by die-cutting may result in edge curl with some foil types. Addition of 5% plasticizer W 1 may reduce this edge curl considerably.

PIGMENTS AND LIGHT FASTNESS

Screen printing inks CP are suitable for outdoor use. Only organic or inorganic pigments with a light fastness of 7-8 according to wool scale (DIN 16 525) are used. If the basic ink shades are mixed with a high content of white or clear, light fastness of the prints is reduced.

The colour shades of CP-NT inks show heavy-metal free pigmentation and correspond to the requirements of EN 71, part 3, safety of toys, migration of certain elements.

ADJUSTMENT FOR SCREEN PRINTING

Prior to processing, Screen printing inks CP are adjusted to printing consistency using

Thinner CXV for printing onto polystyrene for printing onto other substrates

Retarder VZ 10 for printing of fine details

In addition retarders VZ 20, VZ 30 and VZ 40 are suitable.

DRYING

Screen printing inks CP are air-drying, i.e. they dry by evaporation of solvents. Drying time is approx. 2-5 min. at room temperature.

Drying times of 20-25 sec. can be achieved in a belt dryer at temperatures of 40-50°C (approx. 104-122°F).

BRONZE COLOURS

For printing of metallic decorative inks the bronze pastes B 75 to B 79 are available.

Bronze pastes are mixed with bronze binder CP/B prior to processing.

Mixing ratios should be:

Gold bronze paste CP/B = 1 : 3-4 Silver bronze paste CP/B = 1 : 4-6

If bronze inks have to be overprinted we recommend to add an additional 10-30% bronze binder CP/B to the gold bronze mixtures. In all cases it is essential to check overprintability!

Due to the influence of humidity and oxidation components in the air, bronze prints tend to oxidize. Especially gold, copper and bronze prints will then be unattractive. Overprinting the bronze screen print will delay this oxidation process for some time.

CLEANING

Screen printing inks CP can be removed from stencils and tools using universal cleaning agent URS or URS 3.

PACKING

Screen printing inks CP are available in 1 and 5 liter containers.

SHELF LIFE

For information regarding shelf life please see tin label.

CLASSIFICATION

Read material safety data sheets prior to processing.

The material safety data sheets according to Regulation (EC) No. 1907/2006 contain classification according to preparations directive (1999/45/EC) as well as instructions for precautions when processing, handling and storing as well as first aid.

The information given in the material safety data sheet refers to processing as described in this product data sheet.

STANDARD SHADES			
citric yellow medium yellow light orange orange light red red bright carmine red light blue ultra marine dark blue	CP 10/NT CP 11/NT CP 14/NT CP 15/NT CP 20/NT CP 21/NT CP 22/NT CP 30/NT CP 32/NT CP 33/NT	blue violet light green fir green brown white white, highly opaque black black, highly opaque blackoard ink	CP 36/NT CP 40/NT CP 41/NT CP 51/NT CP 60/NT CP 60/HD-NT CP 65/NT CP 65/HD-NT CP 67
PROCESS COLOURS ACCORDING TO EUROPE SCALE			
yellow magenta cyan	CP 180/NT CP 181/NT CP 182/NT		
C-MIX 2000 BASE COLOURS			
primrose golden yellow orange scarlet red magenta	CP/Y30 CP/Y50 CP/O50 CP/R20 CP/R50 CP/M50	violet blue green black white varnish	CP/V50 CP/B50 CP/G50 CP/N50 CP/W50 CP/E50
mat paste overprint varnish overprint varnish, mat base coat for rub off inks overprint varnish bronze binder transparent paste	CP/MP CP 70 CP 70/MT CP 70/31 CP 70/33 CP/B CP/TP		

The statements in our product and safety data sheets are based on our present experiences, however they are no assurance of product properties and do not justify a contractual legal relationship. They serve to advise our business associates, but it is absolutely necessary to make your own printing tests under local conditions, with regard to the intended purpose prior to starting the job. - All former product data sheets are no longer valid. APRIL 2008 – VERSION No. 3

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