

Serie
Series

DECORPLAST

Applications	Recommended to print on: <ul style="list-style-type: none"> • natural fabrics • synthetic fabrics Above fabrics must withstand the ink gelling high temperature.																		
Main features	One-component furnace Ink. Decorplast is an ink made up of a polymer compound that gels at high temperatures of about 140-150°C, in furnace for 2-5 minutes. Its main features are: <ul style="list-style-type: none"> • high elasticity • excellent opacity even on dark fabrics, thanks to its high pigments' concentration • possibility to print wet on wet without interrupting the print • scarce volatility In case the pastes are kept in stock for long time, it is advisable to seal hermetically the containers, since the resin deteriorates in case it is left for long time in contact with oxygen. It is also necessary to check that the environmental temperature of the place where the product is stored is within 20-25°C. If said temperature exceeds this limit there will be viscosity alterations with consequent printing problems. At any rate it is advisable not to store the product for more than 8-10 months.																		
Outdoor resistance	Not suitable for prints destined to long-term outdoor exposure (3-5 years).																		
Mechanical and chemical solidity	Very good resistance to washings. Never dry-wash and always iron on the reverse side. <table> <tr> <td>Daylight</td><td>5-7</td></tr> <tr> <td>Water washing with detergent</td><td>5</td></tr> <tr> <td>Dry-washing</td><td>1-2</td></tr> <tr> <td>Alkaline sweat</td><td>4-5</td></tr> <tr> <td>Acid sweat</td><td>4-5</td></tr> <tr> <td>Dry rubbing</td><td>2-3</td></tr> <tr> <td>Direct ironing</td><td>0</td></tr> <tr> <td>N.B.: Maximum value for daylight</td><td>7-8</td></tr> <tr> <td>Maximum value for other data</td><td>5</td></tr> </table>	Daylight	5-7	Water washing with detergent	5	Dry-washing	1-2	Alkaline sweat	4-5	Acid sweat	4-5	Dry rubbing	2-3	Direct ironing	0	N.B.: Maximum value for daylight	7-8	Maximum value for other data	5
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Drying process	2-5 minutes in furnace at 140-150°C																		
Colour range	Refer to DECORPLAST colour card.																		
Auxiliaries and additives	TRANSPARENT BASES: DECORPLAST – SHEARING PASTE Recommended to decrease the four-colour process colour concentration or to reduce the intensity of opaque colours. It is compatible with all DECORPLAST colours. Ratio: 10-20% depending on the desired effects. DECORPLAST – OPAQUE NEUTRAL BASE Recommended to achieve mat or satin effects with soft touch. Ratio: 10-20% DECORPLAST – OPAQUE NEUTRAL BASE Recommended to soften the touch of the silk-screen print (typical of prints made with water inks) and to decrease the undesired plastic effect, typical of plastisol systems. If you print on white supports, we recommend to use one 73-100 thread frame and 30-50% of base to be mixed with DECORPLAST colours. If you print on dark supports, we recommend to use one 43-55 thread frame and 15-20% of base to be mixed with DECORPLAST colours. DECORPLAST – LAYER BASE Recommended both as overprinting base, to achieve a thick effect (lens effect) with a 43 thread frame and one layer of photosensitive emulsion equal to 150-250 micron, and as base to be coloured with DECORPLAST colours in ratio of 10-20%. DECORPLAST – PUFFING BASE																		

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To be used as it is, to achieve puffing effects. The printed film is off-white, mat and opaque, with soft touch.

We recommend a 32-43 thread frame, the layer of photosensitive emulsion varies depending on the desired effect. Gelling temperature in 2-3 minutes in furnace between 140-150°C. Avoid higher temperatures.

This base can also be coloured with DECORPLAST colours in ratio of 10-15% of colour. Bigger quantities reduce the puff effect.

DECORPLAST – TRANSFER BASE

Utilized as final print on white to increase the adhesion on the fabric in the "transfer system". We recommend a 32 thread frame. The drying temperature before the transfer must be of about 60-80°C.

The transfer temperature must be of 180°C for 15-20 seconds under a press.

DECORPLAST – ELASTICITY BASE

Used in ratio of 5-20%, depending on the desired elasticity level.

It is utilized to render flexible, that is to say to increase the film elongation degree when you print on lycra or elasticized cotton.

We recommend a 43 thread frame.

DECORPLAST – BLOCK BASE

To be used as it is, as transparent base. Formulated on purpose for the transfer of polyester laminated sheets (Mylar).

We recommend a 24-34 thread frame.

Put in furnace at 60-80°C for about 30 seconds, necessary to temporarily dry the BLOCK BASE. Apply the Mylar sheet with a press on the dried base at a gelling temperature of 150-160°C.

Suitable to achieve a glitter effect, print with a 24 thread frame and sprinkle the glitter pigment. After sprinkling, melt for 30-60 seconds in furnace at 150-160°C to fix the glitter on the printed base.

DECORPLAST – BASE FOR METALLIC COLOURS

Formulated to mix gold and silver pigments.

Medium viscosity to make the metallic powders' amalgamation easier by simple shaking.

Recommended ratio of metallic powders: 10-15%.

Use a 54-61 thread frame to allow a regular and uniform pigment transit..

DECORPLAST – GLITTER BINDER

Formulated to allow a simple mixing of the glitter pigments, without undesired pigments agglomerations.

Recommended ratio of glitter: 10-15%.

The silk-screen frame must be set up with a special blanket called "12 thread glitter".

Gelling temperature in furnace at 140-150°C for 3-4 minutes.

DECORPLAST – TRANSPARENT BASE 170

Suitable to achieve a glossy effect on mat base, with no thickness.

We recommend a 77 thread frame.

Gelling temperature of 140-150°C in belt furnace for 3-4 minutes.

WHITE – DECORPLAST

DECORPLAST – WHITE 160 HD

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DECORPLAST

- HIGH DENSITY
- HIGH OPACITY
- GOOD BRIGHTNESS
- SOFT TOUCH
- POSSIBILITY TO PRINT WET-ON-WET

The number of threads for this print must be accurately determined depending on the type of support, in terms of absorption and base colour.

The gelling temperature must be between 140-150°C in belt furnace for 90-180 seconds depending on the ink layer.

DECORPLAST – PUFF WHITE

- THIXOTROPIC DENSITY
- GOOD PRINTABILITY WITH SATIN FINISH
- MEDIUM OPACITY

Use a 24-43 thread frame to achieve a good swelling effect.
The temperature necessary for a good swelling is 150-160°C for 120-240 seconds.

DECORPLAST – WHITE 160 T

"Transfer" white.
The drying temperature before the transfer must be about 60-80°C.
The transfer temperature with press must be 180°C for 10-15 seconds.

DECORPLAST – WHITE 160 U

- MEDIUM DENSITY
- MEDIUM VISCOSITY
- GOOD OPACITY
- EXCELLENT PRINTABILITY
- EXCELLENT BRIGHTNESS
- GOOD ELASTICITY
- CHANGING WHITE

Use between 43 and 77 threads/linear cm.
The gelling temperature goes from 140 to 150°C in belt furnace for 90-180 seconds.
Quick flesh cur. Soft touch. It can be utilized both as base and as finishing colour.

DECORPLAST – WHITE 160 V

- MEDIUM DENSITY
- MEDIUM VISCOSITY
- FAIRLY GOOD OPACITY
- QUITE GOOD BRIGHTNESS
- GOOD ELASTICITY

Formulated for bottom prints but mainly in the four-colour process print on dark supports.
Recommended 61-77 thread frame.
The gelling temperature is between 140 and 150°C in belt furnace for 90-180 seconds.
Quick flesh cure.

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ADDITIVE	APPLICATION	%	GELLING TEMP.
PUFFING PASTE	PASTE ADDITIVE UTILIZED TO ACHIEVE A PUFFING EFFECT	5-10	140-150
FLUIDIFIER	LIQUID ADDITIVE THAT MODIFIES THE DECORPLAST RHEOLOGY (THINNER)	5-15	NO GELLING MODIFICATION
PLASTICIZER	LIQUID ADDITIVE THAT IMPROVES DECORPLAST ELASTICITY	2-5	NO GELLING MODIFICATION
ANTITACK	ADDITIVE UTILIZED TO REMOVE PLASTISOLS STICKINESS (IT REDUCES THE SUCTION EFFECT DURING THE PRINT)	5-20	NO GELLING MODIFICATION
ANTIFOAM	IT REMOVES ANY FOAM FORMING DURING THE PRINT. BETTER FLOWING.	1-2	NO GELLING MODIFICATION

Ink removal	Sericom DACS solvent "Lavaggio Telai" solvent
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PRODUCT CLASSIFICATION:

The DECORPLAST Series inks are classified as NT (non-toxic) and are formulated with pigments which are free from heavy metals. Safety Data Sheets are available, according to UE regulation. Main indications are carried on the product label.

Not suitable for contact with food (not conform to FDA).

NOTE:

Our technical consultancy, carried out by word, by writing or through tests and experiments, is based on our best knowledge.

Said consultancy, however, must be considered as pure information with no binding value, even when regarding eventual property rights of third parties.

This does not exempt the customer from carrying out his own controls on our products, in order to check their suitability or not for the processes and purposes required.