

PRINTPERFEKT CLEAR 680 FF

Characterisation	Formaldehyde-free*, hot curing screen print paste on aqueous base; as blended paste for PRINTPERFEKT WHITE 680 FF; for producing elastic, covering, brilliant multicolour prints on dark textiles
Chemical Structure	Transparent base paste; compound of acrylate dispersion, thickener and additives
Supplied Form	Light beige, high viscosity paste
Ionic Character	Anionic
pH Value	7.6 – 9.5
Storage	If stored properly in a cool place between + 5 °C and + 40 °C in closed original containers, the product will hold for 12 months. Protect from frost impact and excessive heat. Opened containers must be closed again tightly. Stir up before use.

Properties

PRINTPERFEKT CLEAR 680 FF serves as blended paste for PRINTPERFEKT WHITE 680 FF and stands out for its high colour brilliancy and elasticity. PRINTPERFEKT CLEAR 680 can be coloured to any shade and produces multicolour prints with a soft and elastic fabric handle.

PRINTPERFEKT CLEAR 680 FF neither contains formaldehyde nor does it detach it during fixation. The strict demands of various ecological labels such as Öko Tex Standard 100 (Product Class I) and Global Organic Textile Standard (GOTS) can be fulfilled in this way.

The blend consisting of PRINTPERFEKT CLEAR 680 FF and PRINTPERFEKT WHITE 680 FF can be excellently processed with common screen printing processes. The “Lac” paste produced this way stands out for its high opacity, a long open time in the screen and good re-emulsification.

With a proper fixation a good wash fastness and fastness to dry cleaning can be achieved with PRINTPERFEKT CLEAR 680 FF **total pages 3 page 1**

Application Technique

Recommendation for Use and Processing

PRINTPERFEKT CLEAR 680 FF can be blended at any ratio with PRINTPERFEKT WHITE 680 FF. Good results for brilliant, covering multicolour prints on dark fabric qualities were achieved with a mixing ratio of 30 parts of PRINTPERFEKT WHITE 680 FF and 70 parts of PRINTPERFEKT CLEAR 680 FF. Depending on the textile shade and printing ink the mixing ratio can be adjusted.

We recommend stirring up PRINTPERFEKT CLEAR 680 FF before use: PRINTPERFEKT WHITE 680 FF, colour pigments and additives such as fixing agents are to be homogeneously blended with the basic paste by means of suitable stirrers or mechanical shakers.

In general, it is not necessary to thicken or dilute the ready-made paste. However, the viscosity can possibly be decreased by adding small amounts of water (up to 10 %). The viscosity can be increased by homogeneously stirring in TUBIVIS DRL 170.

Printing Processes

Applicable in all common screen printing processes; screens polyester monofilament 43 – 77 S/T depending on the design and fabric quality and the share of white paste. We recommend the application of waterproof photo emulsions. The best opacity as well as colour brilliancy are achieved by repeated printing with intermediate drying.

Drying / Fixation

Fixation of the prints is normally done by dry heat in a range of 140 – 160 °C. For special demands 1.0 – 2.0 % TUBASSIST FIX 120 W can be added keeping the pot life in mind.

Recommendations for drying and fixation with hot air

One step:	in the continuous drier at 140 – 160 °C, 6 – 3 min
Two step:	drying 80 – 120 °C, 10 – 5 min, possibly drying at room temperature after pre-trials
	fixation 130 – 160 °C, 10 – 3 min

For fixation with radiation heat or other kinds of energy, significant pre-trials have to be done.

Recommendation for Use

Before going into production we recommend making it a rule first to test the suitability of the print pastes for the substrates to be used as to wettability, adhesion, fastness properties, thermostability and process parameters and to control this as well during the production run.

* To us formaldehyde-free means that all recipe components neither contain nor release formaldehyde during production or processing.

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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