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## PRINTPERFEKT® LAC FF

<b>Characterization</b>	Formaldehyde-free, hot curing ready for printing screen print paste on aqueous base for coloured prints on dark, elastic textiles
<b>Chemical Structure</b>	Basic paste with fillers; compound of polyurethane dispersion, thickener and additives
<b>Supplied Form</b>	White, high viscosity paste
<b>Ionic Character</b>	Anionic
<b>pH Value</b>	8.5 – 9.5
<b>Viscosity</b>	25,000 – 30,000 mPas (Brookfield RVT 20/7)
<b>Storage</b>	If stored properly in a cool place between + 5 °C and + 40 °C in closed original containers, the product will be stable for about 12 months. Protect from frost and excessive heat. Opened containers must be closed again tightly.

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The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

### Properties

Coloured prints with PRINTPERFEKT® LAC FF produce well covering print effects with a brilliant shade and with a very good fastness level and stand out for their flexibility on elastic fabric qualities.

PRINTPERFEKT® LAC FF has excellent running properties. The prolonged screen opening and the optimum re-emulsification of the paste clearly improve the printing properties.

PRINTPERFEKT® LAC FF is formaldehyde-free and therefore does not release any formaldehyde during fixation. Thus, the strict requirements of various ecological labels such as e.g. Öko Standard 100 (product class 1) and Global Organic Textile Standard (GOTS) can be easily met.

PRINTPERFEKT® LAC FF can be excellently processed in the usual screen printing processes, above all in case of single-coloured prints and those with intermediate drying.

® = registered trade mark

## Application Procedure

### Processing

PRINTPERFEKT® LAC FF is ready for printing and normally coloured in the desired shade with 0.1 – 10.0 % colour pigments, e. g. COLORMATCH colour pigments.

We recommend stirring up PRINTPERFEKT® LAC FF before use. Colour additions or fixing agents have to be homogeneously blended with the basic paste.

If need be, the viscosity can be decreased by adding small amounts of water (up to 5.0 %) or diammonium phosphate solution. The viscosity can be increased by homogeneously stirring in TUBIVIS DRL 170, which is particularly advisable if an extreme drop in viscosity occurred due to high pigment additions.

### Printing Processes

PRINTPERFEKT® LAC FF can be applied in all common screen printing processes; polyester monofilament screen 43 – 77 S/T depending on the design and fabric quality. We recommend the use of waterproof copy layers (photo emulsion). The best covering capacity and the highest brilliance are achieved with multiple overprinting and intermediate drying.

### Drying / Fixation

Fixation of the prints is normally effected by dry heat in the range of 140 - 160°C. For special fixing conditions with reduced fixation temperature or time, you can apply TUBASSIST FIX 104 W with an application amount of 1.0 – 2.0 % as special low temperature crosslinking agent paying attention to the potlife.

#### Recommended conditions for drying and fixation with hot air:

One step     in the continuous drier  
                 140 - 160°C, 6 - 3 min

Two step     Drying:     80 - 120°C, 10 - 5 min, drying at room temperature possible after pretrials  
                 Fixation:     140 - 160°C, 5 - 3 min

When fixing with radiant heat or other sources of energy, it is essential to run a meaningful trial before going into production.

### 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.

**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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