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## PRINTPERFEKT DC FF

<b>Character</b>	Formaldehyde free*, aqueous print paste for producing pigment discharge prints on dyed cotton and viscose
<b>Chemical character</b>	Undyed, aqueous base paste; compound of acrylate dispersions, thickeners and additives
<b>Appearance</b>	White paste
<b>Ionic character</b>	Anionic
<b>pH Value of a 10 % Solution</b>	8.0 – 11.00
<b>Viscosity</b>	30000 – 40000 mPa.s
<b>Stabilities</b>	If stored properly in a cool place between + 5 °C and + 40 °C in closed original containers, the product will be stable for 24 months. Protect from frost and excessive heat. Opened containers must be closed again tightly.

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### Properties

PRINTPERFEKT DC FF is a formaldehyde free product which has excellent suitability for high ecological demands. Product is used for pigment discharge printing on dyed fabrics mainly stands out for a soft handle and high colour brilliancy of the print effects.

PRINTPERFEKT DC FF is mainly used for brilliant coloured prints on dark fabric qualities particularly for a soft, textile handle.

The substrate must have been dyed with dischargeable dyestuffs. If an improper temperature is used, the fibres may be damaged, in particular those of sensitive fabrics. We recommend washing off the printed pieces after fixation to remove excess discharge agent and decomposition products formed during curing.

### Film Properties / Handle

PRINTPERFEKT DC FF produces very soft prints with a pleasant textile character.

### Printing Properties / Fastnesses / Printing Result

PRINTPERFEKT DC FF can be excellently processed with common screen printing methods. On dark textile qualities which are easy to discharge PRINTPERFEKT DC FF shows brilliant print effects with a very high fastness level.

## Application Procedure

### Application Fields

PRINTPERFEKT DC FF is a soft drying basic paste to which CHT POWDER TH is added as discharge agent and pigment dyestuff. The ready-made paste is printed directly onto a textile support dyed with dischargeable dyes, then dried, cured and subsequently washed out. During the curing process the dyestuff on the textile is destroyed on the printed areas through CHT POWDER TH. At the same time the binding agent and the dischargeable pigment dyestuff is fixed. During the subsequent washing process, the decomposition products resulting from the discharge process are washed out of the fabric. PRINTPERFEKT DC FF is mainly applied for brilliant colour prints on dark fabric qualities in particular if a soft, textile handle is desired.

### Recommendation for Use and Processing

#### Material Structure / Substrates

PRINTPERFEKT DC FF can only be applied on dischargeable, cellulosic fibres such as cotton or viscose qualities. The dischargeability of the substrates to be printed must be tested in preliminary trials with PRINTPERFEKT DC FF and CHT POWDER TH.

These are mostly direct or reactive dyestuffs. Information on the dischargeability may be taken from the corresponding colour chart or ordered from the dyestuff manufacturer.

During fixation the dyestuff of the predyed fabric is destroyed in the desired pattern. The COLORMATCH / BEZAPRINT dyestuffs used for the multicolour discharge must be fast to discharge (see shade card).

For achieving good printing results with a high fastness level the substrates have to be dry, clean and possibly free from auxiliary rests or preparation add-ons. We generally recommend testing suitability of the materials in pretrials.

#### Recipe Recommendation

PRINTPERFEKT DC FF	95 - 85 %
COLORMATCH / BEZAPRINT dyestuff	0 - 3 %
CHT POWDER TH	5 - 7 %
TUBASSIST FIX 157 W	0 - 5 %

The ready print paste is to be processed within 2 – 4 hours.

We recommend stirring up PRINTPERFEKT DC FF before use. The components have to be added in the above stated sequence to avoid agglomerations of the colour pigments. When stirring in the powdery CHT POWDER TH, a sufficiently long stirring time up to a complete dissolution is important, especially with very cold print pastes.

For particular fastness demands or on difficult fabric qualities a fixing agent can be added to the print colours.

### Processing / Fixation

PRINTPERFEKT DC FF is blended with CHT POWDER TH and coloured to the desired shade with pigments fast to discharge, e. g. COLORMATCH / BEZAPRINT pigments.

1. Print (43 - 62 S/T screens)
2. Fix for 5 - 3 min at 160 - 180 °C
3. Final washing and rinsing process (if possible)

The fabric colour is destroyed on principle under the influence of humidity and heat which is the case in one step drying and fixing process. Therefore a predrying has to be left out.

### **Additives and Auxiliaries**

#### CHT POWDER TH

The application amount of CHT POWDER TH depends on the dischargeability of the fabric. With a concentration as of 6.0 % good results are achieved.

#### TUBASSIT FIX 157 W

An addition up to 5.0 % is recommended to guarantee special requirements in terms of low formaldehyde values on the fabric and very good stabilities to washing and dry cleaning. Higher concentrations may impair the handle. Print pastes already containing fixing agent have to be processed at once, preferably within 2 to 4 hours. Dispersions containing fixing agent, also residual amounts, may not be stored in closed containers.

#### COLORMATCH / BEZAPRINT Pigments

For colouring PRINTPERFEKT DC FF we recommend to add 0.1 – 3.0 % COLORMATCH / BEZAPRINT pigments (see shade card).

### **Diluting/Thickening**

In general, not necessary; if necessary, the viscosity can be decreased by adding small amounts of water (up to 5.0 %).

### **Cleaning of Working Utensils**

Immediately with cold water. On longer stoppages during printing the screens have to be kept damp or cleaned intermediately. Dried-on paste rests and colour stains on the screen can be soaked with a suitable household cleaner such as dish washing agent. Hard paste residues can be removed only mechanically. It is recommended to check the stability of the screen layers with the cleaning agents in advance.

### **Washing or Rinsing Process**

If the short washing or rinsing process after fixation recommended by us is carried out by the final customer, the clothes have to be labelled in the corresponding way (e.g. wash before wear labels). Moreover, a complete decomposition of the discharge agents through adequate fixation terms is important to avoid a shining through of the discharge effects when the clothes are folded up in piles and to avoid the formation of odour when packing the clothes into plastic bags. Problems may also occur with dust or residual salt on the fabric when processing or sewing cuttings.

### **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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**CHT GERMANY GMBH, P.O. Box 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany**

**Telephone: 07071/154-0, Fax: 07071/154-290, Email: [info@cht.com](mailto:info@cht.com), homepage: [www.cht.com](http://www.cht.com)**

**CHT TURKEY KİMYA SAN. VE TİC.A.Ş., Akçaburgaz Mah. 3118. Sok. No:2 Esenyurt/İstanbul, Tel: +90 212 886 79 13, Fax:+90 212 886 93 47,**

**Email: [info.turkey@cht.com](mailto:info.turkey@cht.com)**