
PRINTPERFEKT DC FF WHITE

Character Formaldehyde free*, aqueous print paste for producing pigment discharge prints on dyed cotton and viscose

Chemical character White pigmented basic paste; compound of acrylate dispersions, thickeners and additives

Appearance White paste

Ionic character Anionic

pH-value (100g/l) 8.0 – 10.0

Viscosity 40000 – 45000 mPa.s

Stabilities 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.

Properties

PRINTPERFEKT DC FF is a formaldehyde free product which has excellent suitability for high ecological demands. Pigment discharge printing on dyed fabrics mainly stands out for the high whiteness degree, the very good covering capacity and the agreeably soft handle of the print effects.

PRINTPERFEKT DC FF WHITE is mainly used for white prints on dark fabric qualities. If required, PRINTPERFEKT DC FF WHITE can also be coloured with colour pigments, e.g. COLORMATCH / BEZAPRINT pigments, for pastel-coloured prints.

PRINTPERFEKT DC FF WHITE can be excellently processed in the usual screen printing process and shows print effects with a very good fastness level on dark textile substrates which are good to discharge.

Application Procedure

Application Fields

PRINTPERFEKT DC FF WHITE is a white paste with a good covering capacity to which CHT POWDER TH is added as discharge agent. The finished paste is printed with direct printing onto a textile support dyed with dischargeable dyestuffs, 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 white pigment are fixed. During the subsequent washing process the cleavage products resulting from the discharge process are washed out of the fabric.

Recommendation for Use and Processing

Material Structure / Substrates

PRINTPERFEKT DC FF WHITE can only be applied on dischargeably dyed 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 WHITE 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 pigments used for pastel shades must be fast to discharge (see shade card).

For achieving good printing results with a high fastness level the substrates in use 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

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|--------------------------|-----------|
| PRINTPERFEKT DC FF WHITE | 95 - 88 % |
| CHT POWDER TH | 5 - 7 % |
| TUBASSIST FIX 157 W | 0 - 5 % |

The finished print paste ought to be processed within 2 – 4 hours.

We recommend stirring up PRINTPERFEKT DC FF WHITE before use. The pigment additions have to be added prior to the discharge agent to prevent the colour pigments from agglomerating. 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 critical fabric qualities a fixing agent can be added to the whole paste.

Processing / Fixation

PRINTPERFEKT DC FF WHITE is blended with CHT POWDER TH.

1. Print (27 - 43 S/T screen)
2. Cure for 5 - 3 min at 160 - 180 °C
3. Final washing and rinsing process (if possible)

The fabric colour is basically destroyed under the influence of humidity and heat which is automatically given in a one step drying and fixing process. Therefore a predrying must be omitted.

With an improper temperature guidance the fibre may be damaged, particularly sensitive fabric qualities.

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 5.0 % 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 / BEZAPRINT Pigments

For colouring PRINTPERFEKT DC FF WHITE we recommend adding 0.1 – 4.0 % COLORMATCH / BEZAPRINT pigments which are fast to discharge (see shade card).

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.

Edition: April, 2026

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