

## <sup>®</sup> PRINTPERFEKT BLANC 670

<b>Characterisation</b>	Low formaldehyde, hot curing ready for use white paste on aqueous base for covering white prints on dark, elastic textile qualities
<b>Chemical Composition</b>	White pigmented base paste, free from white spirit, APEO and phthalates; compound of synthetic dispersions, thickener and additives
<b>Supplied Form</b>	White, high viscosity paste
<b>Ionic Character</b>	Anionic
<b>pH Value</b>	7.5 - 9.5
<b>Viscosity</b>	55,000 – 60,000 mPas (Brookfield RVT 20/7)
<b>Storage</b>	If stored properly in a cool place between + 5°C and + 25°C in closed original containers, the product will hold for about six months. Protect from frost and excessive heat. Opened containers must be closed again tightly.

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

Prints with PRINTPERFEKT BLANC 670 stand out for their good covering capacity and a brilliant white effect. Despite the high white pigment concentration, PRINTPERFEKT BLANC 670 produces white prints with a soft and elastic handle.

PRINTPERFEKT BLANC 670 only contains minor formaldehyde quantities, so that under production terms with the preset minimum fixation terms a formaldehyde content of less than 16 ppm according to LAW 112 can be met. The strict demands of various ecological labels (product class I Öko Tex Standard 100 and Global Organic Textile Standard (GOTS)) can be fulfilled this way. We recommend pretrials under the corresponding production terms.

PRINTPERFEKT BLANC 670 can be excellently processed in the usual screen printing processes and stands out for its extremely long open time in the screen and a good re-emulsification behaviour, which lead to clearly improved printing properties. The best covering capacity and whiteness degree are achieved by printing in the last position or with intermediate drying.

With a proper fixation PRINTPERFEKT BLANC 670 can achieve a good stability to washing and dry cleaning.

<sup>®</sup> = registered trade mark

## Application Technique

### Recommendation for Use and Processing

PRINTPERFEKT BLANC 670 is ready for printing and is applied for brilliant, covering white effects on dark fabric qualities.

We recommend stirring PRINTPERFEKT BLANC 670 thoroughly before use. Additives such as e.g. fixing agents have to be homogeneously blended with the basic paste with suitable stirrers or shaking machines.

Thickening or diluting of the finished paste is generally not necessary; if necessary, the viscosity can be decreased by adding small amounts of water (up to 10 %). The viscosity can be increased by homogeneously stirring in 0.1 - 0.5 % TUBIVIS DL 650.

#### Printing processes

Application by means of all common screen printing methods; PES monofilament screen gauzes of 43 – 77 S/T depending on design and fabric quality. We recommend the use of waterproof photo emulsions. The highest covering power and highest white effect are achieved if PRINTPERFEKT BLANC 670 is printed several times with intermediate drying.

#### Drying / Fixation

The prints are usually cured by dry heat in the range of 130 – 160 °C. For special demands with a decreased fixing temperature or reduced fixing time TUBASSIST FIX 104 W can be applied with 1.0 – 2.0 % as special low temperature crosslinking agent observing the potlife.

#### Recommended conditions 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 preliminary trials  
                  fixation  
                  130 - 160 °C, 10 - 3 min

For achieving formaldehyde values < 16 ppm according to LAW 112 fixation must be carried out for 3 min at a minimum temperature of 150 °C.

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 wetting, adhesive power, fastness properties, thermostability and processing parameters and to control everything during production, too.

**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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