
PRINTPERFEKT® BASE FF

Characterization	Formaldehyde-free, hot curing screen printing paste on all-aqueous base for colour prints on light coloured textiles; white spirit free, and APEO free
Chemical Structure	Unpigmented basic paste; compound of formaldehyde-free synthetic dispersion, thickener and additives
Supplied Form	White paste with medium viscosity
Ionic Character	Anionic
pH Value	7.6 - 9.5
Viscosity	13,300 - 19,000 mPas (Brookfield RVT)
Storage	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.

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

Very brilliant colour prints with a very good fastness level are achieved with PRINTPERFEKT BASE FF on light coloured textiles.

PRINTPERFEKT® BASE FF has outstanding running properties® and with the longer opening time of the screen and the optimal reemulsification of the paste the printing properties are decisively improved.

PRINTPERFEKT® BASE FF is formaldehyde-free and does not release any formaldehyde during fixation either. In this way, the strict requirements of the various Öko labels such as Öko Tex Standard 100 (product class I) and Global Organic Textile Standard (GOTS) can be safely fulfilled.

Application proposal

Recommendation for Use / Processing

PRINTPERFEKT® BASE FF is ready for printing and is normally dyed with 0.1 – 8.0 % colour pigments to the desired shade.

® = registered trade mark

We recommend stirring up PRINTPERFEKT[®] BASE FF before use; colour additions and curing agents are to be mixed with the basic paste until homogeneous.

If necessary, the viscosity can be decreased by adding a small amount of water (up to 5.0 %) or by adding diammonium phosphate solution. The viscosity can be increased by homogeneously stirring in 0.1 – 0.5 % TUBIVIS DRL 170 and is recommended in particular when the viscosity decreases due to high dyestuff additions.

Printing Method

It can be applied for all common screen printing processes; screen meshes polyester monofil 43 – 90 S/T, depending on the design and the fabric quality. We recommend the application of waterproof copy layers (photo emulsions).

Drying and Fixation Terms

Normally fixation of the prints is done by dry heat in a range of 140 – 160 °C. For special requirements with lower fixation temperatures or less fixation time, 1.0 – 2.0 % TUBASSIST FIX 104 W can be applied as special low temperature crosslinking agent keeping the pot life in mind.

Recommended conditions for drying and fixation with hot air:

One stage: in the continuous drier
140 – 160 °C, 6 – 4 minutes

Two stages: Drying: 80 – 120 °C, 10 – 5 minutes,
(drying at room temperature is possible after preliminary trials)
Fixation: 140 – 160 °C, 5 – 3 minutes

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

Recommendation for Use

Before going into production we recommend making it a rule first to test the suitability of the printing pastes for the substrates to be used as to wetting, adhesion, fastness properties, thermostability and processing parameters and to control everything 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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CHT R. BEITLICH GMBH

Postfach 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany

Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com