PRINTPERFEKT® AM 1

Characterization	Ready for use preprint paste preferably applied as sublimation inhibitor
Chemical Composition	Aqueous base paste with filling agents, formaldehyde-free*; compound of synthetic dispersions, thickener and additives
Supplied Form	Black, medium viscosity paste
Ionic Character	Anionic
pH Value	8.0 - 9.0
Viscosity	27,000 - 35,000 mPas (Brookfield RVT 20/6)
Storage	If stored properly in a cool place between + 5 and + 40 °C in closed original containers, the product will hold 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

PRINTPERFEKT® AM 1 neither contains formaldehyde nor does it release any during fixation. The strict demands of various ecological labels such as e.g. Öko Tex Standard 100 (product class I) can be fulfilled this way.

Film Properties / Fabric Handle

PRINTPERFEKT® AM 1 is applied as preprint in combination with PRINTPERFEKT® LAC or PRINTPERFEKT® BLANC pastes on highly subliming dark synthetic fabrics (polyester, polyester/cotton fabrics) dyed with disperse dyestuffs. Despite the high filling agent concentration, PRINTPERFEKT® AM 1 hardly influences the fabric handle of the prints. Depending on the fabric quality and the fixation terms, the blocking effect may perhaps be insufficient.

® = registered trade mark

Application Technique

Processing/ Fixation

PRINTPERFEKT® AM 1 is ready for printing and ought to be stirred up before use.

Fixation is usually carried out by means of dry heat within the temperature range of 130 – 150 °C.
The lower the fixation temperature and the shorter the fixation time, the lower the dyestuff migration.

Additives and Auxiliaries

TUBIPRINT RETARDER

If necessary, 2.0 – 5.0 % of this retarder are added to reduce the drying speed into the printing screens and to improve simultaneously the printing properties. High concentrations may slow down the drying and fixation process which may then have to be adjusted.

Diluting/Thickening	In general not required; 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.
Cleaning of Working Utensils	Immediately with cold water. On prolonged stoppages during printing the screens have to be kept moist or cleaned intermediately. Dried-in paste rests can be softened with common detergents and then rinsed with a strong water jet; cured paste rests can only be removed mechanically.
Printing Process	Applicable in all common screen printing processes with PES monofilament screen gauzes of 34 - 43 S/T depending on design and fabric quality. The preprint paste ought not to be printed with the same screen mesh as the subsequent colours in order to avoid a moiré effect.
Drying / Fixation	130 – 150 °C, 15 – 5 min Can be carried out in one or in separate working steps. For achieving the best possible fastness properties a fixation of the printing inks by heat treatment is necessary. Water vapour arising during the drying and fixation phase must be permanently drawn off by means of an adequate ventilation. By doing so, an insufficient fixation of the printing inks due to moisture accumulation in the drying or fixing zone is avoided. When fixing with radiant heat or other sources of energy, meaningful pretrials are required.

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.

* 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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