

PRINTPERFEKT® BASE CC 20

Characterisation	Ready-for-printing hot curing screen print paste for colour prints on light-coloured textiles which meet particularly high demands on the sustainability.
Chemical Composition	Unpigmented, aqueous base paste; compound of polymer dispersions, thickener and additives
Appearance	Light coloured paste of medium viscosity
Ionic Character	Anionic
pH Value	7.5 - 8.5
Storage	If stored properly in closed original containers at temperatures between + 5 °C and + 40 °C, the product will hold for at least 12 months. Protect from frost impact 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® BASE CC 20 is ready for printing and must only be coloured in the desired shade with suitable colour pigments.

Prints with PRINTPERFEKT® BASE CC 20 are soft and hardly influence the textile character of the fabric.

PRINTPERFEKT® BASE CC 20 can be excellently processed in common screen printing processes and can be easily printed wet on wet. With PRINTPERFEKT® BASE CC 20 prints with sharp outlines and brilliant colours results. With a proper fixation prints with PRINTPERFEKT® BASE CC 20 have very good stabilities to washing and to dry cleaning.

Fixation of the prints is usually effected by means of dry heat at 160 °C.

® = registered trademark

Application Technique

Recommendation for Use / Processing

Condition of Substrate / Substrates

PRINTPERFEKT® BASE CC 20 is excellently applicable on numerous presently common textile qualities.

For achieving good print effects with a high fastness level, the substrate has to be dry, clean and possibly free from auxiliary residues or finish add-ons. We generally recommend checking the suitability of the materials beforehand - especially in case of impregnated qualities or heat-sensitive or coloured textiles (e.g. migration of dispersion dyes caused by heat).

Recipe Recommendation

Colour print on light-coloured textiles PRINTPERFEKT® BASE CC 20 + 0.1 - 5.0 % BEZAPRINT CC pigment inks

Only selected pigment inks must be used after preliminary checks.

We recommend thoroughly stirring up PRINTPERFEKT® BASE CC 20 prior to use. colour additions must be homogeneously blended with the base paste.

Diluting / Thickening

In general, not necessary. If need be, the viscosity can be reduced by adding slight amounts of water (up to 5.0 %). The viscosity can be increased by homogeneously stirring in 0.1 - 0.5 % TUBIVIS CC and is recommended whenever a strong loss in viscosity has occurred due to high dye additions.

Cleaning of working devices

Immediately with cold water, on prolonged stoppages during printing the screens have to be kept damp or cleaned intermediately. Opened paste residues are soaked with common cleaning agents and then rinsed with a strong water jet, whereas cured paste residues can only be removed mechanically.

Printing process

Applicable in all common screen printing processes; polyester monofilament screen gauze 34 - 90 threads/cm, preferably 43 - 62 threads/cm depending on the design and quality of the fabric.

Drying / Fixation

Can be effected in one or in separate working steps. For achieving the best possible fastness properties a fixation of the printing inks by means of a heat treatment is necessary.

Water vapour arising during drying and fixation must be sucked off by means of the corresponding ventilation. This prevents an incomplete fixation of the printing inks because of humidity accumulation in the drying or fixation zone.

Guidelines for drying + fixation with hot air

	In the drying chamber	In the continuous drier
One step	150 °C, 5 min	160 °C, 3 min
Two step	drying 80 - 120 °C, 10 - 5 min, possibly drying at room temperature after preliminary check	
	Fixation 160 °C, 3 min	

When fixing with radiant heat of other energy sources significant pre-trials must be carried out.

Recommendation for Use

Before going into production, we recommend making it a rule first to test the substrate in terms of wetting, adhesion, fastness properties, heat stability and processing parameters and to control everything as well during production.

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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