

PRINTPERFEKT® CLEAR CC 50

Characterisation	Ready-for-printing, hot curing screen print paste as blend for PRINTPERFEKT® WHITE CC 10 which meets particularly high demands on the sustainability. Elastic, covering, brilliant multicolour prints can be achieved with it on dark textiles.
Chemical Composition	Transparent base paste; compound of polymer dispersions, thickener and additives
Appearance	White, high viscosity paste
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. Stir up before use.

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® CLEAR CC 50 serves as blended paste for PRINTPERFEKT® WHITE CC 10 and stands out for its high colour brilliance and elasticity. With very high pigment concentrations PRINTPERFEKT® CLEAR CC 50 can also be used as base paste. The paste can be coloured to any desired shade and produces multicolour prints with a soft and elastic fabric handle.

The mixture of PRINTPERFEKT® CLEAR CC 50 and PRINTPERFEKT® WHITE CC 10 can be excellently processed in common screen printing processes. The resulting LAC paste stands out for its high opacity and good printability.

With a proper fixation PRINTPERFEKT® CLEAR CC 50 achieves good stabilities to washing and to dry cleaning.

® = registered trademark

Application Technique

Recommendation for Use / Processing

Condition of Substrate / Substrates

PRINTPERFEKT® CLEAR CC 50 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

PRINTPERFEKT® CLEAR CC 50 can be blended at any ratio with PRINTPERFEKT® WHITE CC 10. Good results for brilliant, covering multicolour prints on dark fabric qualities were achieved with a mixing ratio of 30 parts of PRINTPERFEKT® WHITE CC 10 and 70 parts of PRINTPERFEKT® CLEAR CC 50. Depending on the textile colour and printing ink the mixing ratio can be adjusted in the corresponding way.

We recommend thoroughly stirring up PRINTPERFEKT® CLEAR CC 50 prior to use: PRINTPERFEKT® WHITE CC 10 and BEZAPRINT CC colour pigments must be homogeneously blended with the base paste by means of suitable stirring units or mechanical shakers.

Diluting / Thickening

Thickening or diluting of the ready-for-use pastes is generally not necessary but if need be, the viscosity can be reduced by adding slight amounts of water (up to 10 %). The viscosity can be increased by homogeneously stirring in TUBIVIS CC.

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, monofilament PES screen gauze, 43 - 77 S/T depending on the design and fabric quality and the share of white paste. We recommend using waterproof photo emulsions. The best opacity and colour brilliance are achieved by printing several times with intermediate drying.

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

One step	in the continuous drier at 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.

Edition: September 2020

CHT GERMANY GMBH, P.O. Box 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

CHT TURKEY KİMYA SAN. VE TİC.A.Ş., Akçaburgaz Mah. 3118. Sok. No:2 Esenyurt/İstanbul,

Tel: +90 212 886 79 13, Fax:+90 212 886 93 47, Email:info.turkey@cht.com.tr