

BOMOPRINT CLEAR FF

Characterization	Formaldehyde-free, hot curing screen print paste on aqueous base; as reduction paste for BOMOPRINT BLANC FF and for LAC FF; for producing elastic, covering, brilliant multicolor prints on dark textiles
Chemical Structure	Transparent base paste; compound of formaldehyde-free synthetic dispersions, thickener and additives, free from phthalates, white spirit and APEO
Supplied Form	White, high viscosity paste
Ionic Character	Anionic
pH Value	7.6 – 9.5
Viscosity	47,500 – 56,700 mPas (Brookfield RVT 20/7)
Storage	If stored properly in a cool place between + 5 °C and + 40 °C in closed original containers, the product will hold for 12 months. Protect from frost 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

BOMOPRINT CLEAR FF serves as reduction paste for BOMOPRINT BLANC FF and LAC FF and stands out for its high color brilliancy and elasticity. BOMOPRINT CLEAR FF can be colored to any shade and produces multicolor prints with a soft and elastic fabric handle.

BOMOPRINT CLEAR FF neither contains formaldehyde nor releases it during fixation, so that the strict demands of various ecological labels such as Oeko Tex-Standard 100 (product class I) and Global Organic Textile Standard (GOTS) can be fully met.

The blends consisting of BOMOPRINT CLEAR FF and BOMOPRINT BLANC FF or LAC FF can be excellently processed with common screen printing processes. The "LAC" pastes produced this way stand out for their high opacity, a long open time in the screen and a good re-emulsification.

With a proper fixation a good fastness to washing and to dry cleaning can be achieved with BOMOPRINT CLEAR FF.

Application Technique

Recommendation for Use and Processing

BOMOPRINT CLEAR FF can be blended at any ratio with BOMOPRINT BLANC FF or LAC FF. Good results for brilliant, covering multicolor prints on dark fabric qualities were achieved with a mixing ratio of 30 parts of BOMOPRINT BLANC FF or LAC FF and 70 parts of BOMOPRINT CLEAR FF. Depending on the textile shade and printing ink the mixing component or ratio can be adjusted.

We recommend stirring up BOMOPRINT CLEAR FF before use: BOMOPRINT BLANC FF or LAC FF, color pigments and additives such as e.g. fixing agents are to be homogeneously blended with the basic paste by means of suitable stirrers or oscillatory machines.

In general, it is not necessary to thicken or dilute the ready-made pastes; however, the viscosity can be decreased by adding small amounts of water (up to 10 %). The viscosity can be increased by homogeneously stirring in TUBIVIS DRL 170.

Printing Process

Applicable in all common screen printing processes; polyester monofilament screens 43 – 77 S/T depending on the design and fabric quality and the share of white paste. We recommend the application of waterproof photo emulsions. Best possible opacity as well as color brilliancy are achieved by repeated printing with intermediate drying.

Drying / Fixation

Fixation of the prints is normally done by dry heat in a range of 130 – 160 °C. For special demands 1.0 – 2.0 % TUBASSIST FIX 104 W can be added keeping the pot life in mind.

Recommendations 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 pre-trials
	Fixation:	130 – 160 °C, 10 – 3 min

For fixation with radiation heat or other kinds of energy, expressive pre-trials have to be done.

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 wet ability, adhesion, fastness properties, thermo stability and process parameters and to control this 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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