

Technical Information

BOMO-Print NLD OP

- Characterization:** Ready-to print, one-component hot or two-component cold-curing screen printing paste on aqueous basis; for brilliant high-gloss prints on synthetic fibers, especially nylon fabric. (Non-absorbent substrates)
- Chem. composition:** Printing ink without solvent, free from heavy metals
Slight smell of ammonia
- Appearance:** medium viscous, white pigmented printing paste
- pH:** 8 - 9
- Viscosity:** mPas (Brookfield RVT)
- Proper storage:** cool, dry place between + 5 °C and + 25 °C in closed original container approx. 1 year
Protect from frost and excessive heat.
Opened containers must be well sealed.

Processing:

BOMO-Print NLD OP is ready to be printed (one-component), or by adding 3% FIX 104 W (two-component). There may be 3 – 5% retarder RTD 607 W or else up to 10% of water is added.

Fixation:

BOMO-Print NLD OP is dried at room temperature of 24 °C within about 30 minutes. For good washing resistance, a heat fixation is recommended (one component).

Film properties / touch&feel:

Prints with BOMO-Print NLD OP are very soft and hardly influence the textile character of the product. BOMO-Print NLD OP is therefore also suitable for soft mesh qualities.

Printing properties / fastness properties / other:

BOMO-Print NLD OP can be processed in the usual screen printing process and is easy to print; resulting in brilliant colors and very sharp prints.

For fine sieves and high room temperatures, it may be advisable to add a retarder. Prints with BOMO-Print NLD OP dry quickly and can therefore be stacked even after short drying times. However the stated fixing conditions must be observed for final fixing.

When fixed in accordance with directions, prints with BOMO-Print NLD OP have very good washing and chemical cleaning resistance.

Application areas:

BOMO-Print NLD OP is mainly used for single- and multi-color prints on dark synthetic (=non-absorbent) qualities, with a fixing additive, especially when there is no adequate heat fixing possibility, or when temperature-sensitive product qualities are used (e.g. shrinkage, dye migration, etc.).

Recommended use and processing:

BOMO-Print NLD OP does not contain heavy metals or solvents and has exceptionally high wash resistance. The prints are resistant to ironing and are exceptionally soft despite their high opacity.

In order to achieve good printing effects with a high level of fastness, the substrates used must be dry, clean and, as far as possible, free of auxiliary residues or preparations. In general, we recommend that you check the materials for their suitability, in particular in the case of waterproof qualities or heat-sensitive textiles and color qualities (e.g. thermo migration of dispersion dyes).

Recipe recommendation:

Opaque color printing:	BOMO-Print NLD – OP Base	1 – 10% Colormatch pigments
Transparent color printing:	BOMO-Print NLD- transparent Base	1 – 5% Colormatch pigments
White printing:	BOMO-Print NLD – OP white	no pigmentation necessary

We recommend stirring BOMO-Print NLD OP well before use; Color additives should be mixed homogeneously with the base paste.

Additives:

If necessary, 2 – 5% retarder RTD 607 W is added. This serves to reduce the drying rate in the printing stencils and at the same time improves the printing behavior. In particular with fine screens and / or high room temperatures, the use of RTD 607 W in print pastes BOMO-Print NLD OP is recommended. The addition in high concentrations can result in drying and fixing slow down and may have to be adjusted if necessary.

Dilution: Generally **not** required; if necessary, viscosity reduction can be achieved by addition of water (up to 10%)

Cleaning of working equipment: Immediately clean with cold water, keep the printing stencils wet for long downtime periods or they have to be washed out occasionally. Dried residues can be softened with PREGAN 1014E and rinsed with a strong water jet. It is recommended to check the resistance of the screen layers to the cleaning agents used beforehand.

Printing process: Can be used in all standard screen printing processes; Mesh

BOMO-Print NLD OP White	T 34 to T 62
BOMO-Print NLD OP Base	T 43 to T 77
BOMO-Print NLD transparent Base	T 49 to T 90

depending on design and product quality.
Finer fabrics usually give higher durability.

<u>Drying / fixing:</u>	- Hot fixing	150 –170°C	5 - 3 minutes
	- At room temperature	with addition of 3% FIX 104W wash able within 6 days	

It should be noted that the actual cross linking reaction of the binding system only take place after complete drying of the printing inks. During drying and fixing conditions good ventilation is required.

When drying with radiant heat or other types of energy, meaningful preliminary tests are necessary. At temperatures above 100 °C, the yellowing and shrinking of the substrates must be considered.

Recommended use:

In general, we strongly recommend that you test the suitability of the print pastes for the substrates used with regards to use, adhesion, fastness properties, thermo stability and processing parameters before the start of production by means of preliminary tests and also during production.

Special attention:

Information on safety, such as handling, hazard classification, ecological and toxicological data is listed in the safety data sheet.

For further information and technical advice please do not hesitate to contact us.

This data sheet is for your information; a legal liability cannot be derived from this. Our products are subject to continuous production and quality control and leave our house in perfect condition. However, since the application of the product is outside our sphere of influence, no liability can be assumed for damages