

## ECOPRINT CLEAR LS

### Main Description:

Short Chain Synthetic Pigment Thickener

### Chemical Structure:

Dispersion of an acrylic copolymer in mineral oil.

### Technical Specification:

Appearance at 20-25°C

Creamy liquid

pH Value at 20-25°C

Approx. 6.0-8.0

### Properties:

- **Ecoprint Clear PS** is a synthetic thickening agent for pigment printing. It has a powerful thickening action and does not swell rapidly. It has very little influence on the handle of the printed fabric.
- Owing to its low inherent viscosity and high swelling rate in water, it is also ideal for the supplementary thickening of print pastes. Pastes that have been thickened up with **Ecoprint Clear LS** do not require filtering again before use.
- **Ecoprint Clear LS** allows simple preparation of print pastes that have very good running properties and produce brilliant prints with excellent contour definition.
- Good soft hand feeling, non-sticky, sharp patterns, high color yield;
- Easy to use, low dosage, excellent stability, Non-crust, no clogging of the mesh when printing.
- Can be mixed with ECOMIN pigments.

### Application:

- **Guidelines for recipe:**

**Ecoprint Clear LS** is used about 20-25 g per kg of a recipe, depending upon the required appearance of the recipe.

- **pH:**

The pH of the print pastes should be at least 8. Lower values must be corrected by adding liquor ammonia.

- **Viscosity**

The viscosity of solvent-free pastes can be increased by stirring **Ecoprint Clear LS** directly into the paste. If the viscosity is too high, it can be readily reduced by stirring in small amounts of an aqueous solution of diammonium phosphate or ammonium sulfate.

- **Fixation**

When formulations containing at least 20 g/kg **Ecoprint Clear LS** are fixed with hot air (5 minutes at 150 °C), it is not necessary to add an acid donor. Under these conditions, **Ecoprint Clear LS** itself acts as an acid donor, ensuring crosslinking of the binder. However, if superheated steam (at least 160 °C) is used, the addition of small amounts of an acid donor may be an advantage (e.g. 4-5 g of an aqueous diammonium phosphate solution 1:3 per kg print paste). Hot-air fixation produces the optimum standard of fastness. The following temperatures and Cure times are recommended:

**4-5 min at 150 °C or**

**3-2 min at 160- 170 °C.**

Fixation with superheated steam should be carried out for 5- 7 minutes at a minimum of 160 °C. This method also produces a good standard of fastness but somewhat below that of prints fixed with hot air.

### Storage:

The product is stable for 12 months, whenever it is kept in the original containers, well-closed and protected from weather inclemencies at a maximum temperature of 35 °C.



Information concerning the safety regulations can be taken from the Material Safety Data Sheet of this product. 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.