

# ANC ENZYME SOLUTIONS PTE LTD

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## PPR-100 Conc Printing Paste Remover.

### Background :-

In printing of textiles, it is common to use a printing paste containing a dye and a thickener. Among the commonly used thickeners are biological polymers and chemically modified biological polymers, such as alginate, starch or modified starch, locust bean gum, galactomannan or modified galactomannan and carboxymethyl cellulose.

With most printing methods, the polymer and excess dye must be removed by washing with water after the fixation of the print. Generally, a large amount of water is required for complete removal due to the high viscosity and low water solubility of the printing paste. Insufficient removal leads to unsatisfactory quality of the finished textile for the following reasons: 1) dye may be transferred to other parts of the printed textile or to other garments during laundering by the consumer. 2) Residual thickener will make printed areas stiff.

PPR-100 Conc is a complex blend of enzymes used to produce a formulated product that will provide the benefits listed below.

### Benefits:-

- Reduced process time for clean-up of printed textile.
- Reduced energy and water consumption for clean-up of printed textile.
- Improved crocking fastness of finished garment due to better removal of excess dye.
- Improved softer hand of printed textile due to better removal of thickener.

### Application:-

In a conventional process the printed textile is first rinsed with cold water, then washed at high temperature with the addition of a detergent and sometimes also a suitable additive to decrease backstaining. The process is repeated until satisfactory amount of thickener and dyestuff have been removed. The enzyme treatment can be applied in one of the hot washes of the printed textile,

preferably the first hot wash. The process may be run in batch mode or continuous mode. The process may be applied on a winch, a beck, a jet dyer, a jig, a open-width washing machine, a pad roll or any other equipment available suitable for a washing process or a incubation of the enzyme with the textile before washing.

PPR-100 Conc will require formulation and the formulated product is added to the process as per the conditions and dosage as follows.

### Formulation (Recommended):-

MSP	35%
Salt (NaCl)	Balance to 100%
Detergent	10%
PPR-100	4-10%
Non-ionic Wetting Agent	0.5%

Detergent is typically a 80EO mol/g Ethoxylated Fatty Alcohol eg. Lutensol AT80 from BASF

### Conditions:-

Appearance	Off White to White Powder
Optimal pH range	5.5 to 7.5, pH 6.5 Optimum
Optimal Temperature	55 to 80°C, 70°C Optimum

### Dosage :

Typically 1%-3% owg depending on content in formulated product. Sample runs are recommended to be performed prior to full scale use to determine suitability of process.

### Storage :-

The product should be kept cool and dry, avoid direct sunlight, close lid after use.