



MIRACHEM INDUSTRIES

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MIRASOFT – PE 100

Mirasoft – PE 100 is a concentrated thermo reactive nonionic softener specifically formulated to improve sewability of cotton knit goods. **Mirasoft – PE 100** also minimizes any reduction in abrasion resistance and tear strength in the resin finishing of fabrics composed of cotton, spun rayon and linen, and their blends with synthetic fibres.

- Produces a wash fast, very full and extremely soft handle
- Can be used as a pure finish, but is particularly effective in combination with resin finishes.
- Treated fabrics have the following features:
 - Improved stitching performance
 - Reduced needle cutting resulting in higher seam strength
 - Improved tear strength
 - Smooth and non-greasy handle.
- Treated yarns exhibit good lubricity resulting in easier subsequent processing and lower breakages.
- Does not impair the degree of whiteness of optically brightened goods and has only a slight effect on the shade of dyed goods
- Improves the crease recovery angle and wash and wear behavior in combination with cross linking agents for cellulosic fibres

Properties:

Appearance	: Light yellow brown cubes
Chemical Nature	: Polyethylene Oxide
Ionic Nature	: Nonionic
Solubility	: Dispersible
pH (2% solution)	: 8.0 – 9.0
Compatibility	: Compatible practically with all products used in finishing
Suitability for white goods:	Good
Storage Stability	: Stable for 6 months if stored in a cool & dry place.

Influence on dyed goods

- Shade : Slight shift of shade possible
- Fastness properties : Virtually no influence

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Method of Emulsion Preparation:

Weigh the required quantity of Polyethylene cubes (20%) & add to the known quantity of boiling water under constant stirring. Continue heating for 30.0 minutes till all cubes are dispersed, forming a homogeneous emulsion. Cool down to room temperature under slow stirring before use.

Method of Application:

The application amount depends on the material to be treated and the effect desired.

1. For yarns –

Mirasoft – PE 100 → 0.5 – 1.0% (on weight of yarn) by soaking/squeezing or hydro extracting and drying.

2. For fabrics –

To improve the sewability of knit goods:

Mirasoft – PE 100 → 20 – 50 g/l (liquor pick-up: 70 – 90%)

Additive in resin finish:

Mirasoft – PE 100 → 20 – 30 g/l by padding

Raising softener:

Mirasoft – PE 100 → 10 – 20 g/l

Mirafin – W → 10 – 20 g/l

General safety instructions:

The usual hygiene and safety rules for handling chemicals should be observed in storage, handling and use. The product should not be swallowed. For further information, please consult existing safety data sheet.

Note : The data contained in this communication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. Responsibility for compliance with the requirements of the downstream textile market rests with the textile processor.