



MIRACHEM INDUSTRIES

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EMCOZYME - LX

Emcozyme - LX is an acid cellulase enzyme specifically designed for fabrics and garment finishing (**bio-polishing**) of cotton textiles. The enzyme protein is purified from the parent organism to yield optimal performance.

- It is a ready to use product for enzymatic finishing to get novel effects on woven / knit fabrics and garments.
- The treatment improves wearing comforts durable to repeated home launderings and imparting softness and supple feel.
- High enzyme activity
- Softens fabrics naturally
- Permanent, soft handle on heavy, thick qualities and articles with rough surface
- Removes neps, motes, immature and dead cotton and reduction of loose surface and hairy fibres leading to improved pilling resistance.
- Removes and prevents surface fuzz
- Improved wearing comfort and fashion effects
- Gives a fading discolouration effect on jeans / Denim garments as well as an artificial enzymatic abrasion.

Properties

Appearance	: Brown Liquid
Chemical Nature	: Acid Cellulase
Solubility	: Soluble in cold water
pH (2% solution)	: 5 - 6
Stability	: Resist to Hard Water
Storage Stability	: Stable for 3 months (When stored in a cool & dry place)

Method of Application :

The application can be carried out both by pad role system as well as exhaust in batch on soft flow machine. The dosage for treatment depends on the finishing effect desired, cloth construction and type of raw material origin. The following may be taken as a starting guideline.

Dosage	: 0.5 – 2 % (on weight of fabric)
pH of treatment liquor	: 5 - 5.5
Temperature of treatment liquor	: 55 - 60° C





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Time of treatment	: 30 - 60 min. for exhaust process 90 – 150 min. for pad process followed by mechanical agitation to fabric during wash off.
Enzyme deactivation	: Either raise temperature to 55 - 60° C and run for 10 min. or drain bath for exhaust systems. For padding process the deactivation is done by good washing at elevated temperatures of 90° C and above.
Ecology / toxicology	: 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.
Best Before	: When stored as recommended, the product is best used within 3 months from the date of delivery.
Storage Temperatures	: 0. - 25° C (32° F 77° F)
Storage Conditions	: In unbroken packaging – dry and protected from the sun the product has been formulated for optimal stability. Extended storage or adverse conditions such as higher temperature or higher humidity may lead to a higher dosage requirement.

General safety instructions

General 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.