



# MIRACHEM INDUSTRIES

B-310, Virwani Industrial Estate  
Off Western Express Highway  
Goregaon (East), Mumbai - 400 063, India  
Tel.: +91 22 42417575 / 29271378  
Fax: +91 22 42417550

www.mirachemindustries.com  
Email:  
admin@mirachemindustries.com  
mirachem@bom5.vsnl.net.in  
mirachemindustries@gmail.com

TECHNICAL LITERATURE

## EMCOZYME - LXC

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Emcozyme – LXC is a specially formulated acid cellulase enzyme designed for finishing (bio-polishing) of cotton textiles.





## **Salient Features:**

- **Easy-to-use product for enzymatic finishing agent to be used under the pH range of 5 – 5.5.**
- High enzymatic activity.
- Softens fabric naturally with less fabric weight loss.
- Removes neps, motes, immature and dead cotton.
- Good anti-pilling effect.
- Softer handle with greater drapability.
- Good repeatability.
- Improved wearing comfort and fashion effects.
- Easy and safe to use.





### Properties:

Appearance	: Brown Liquid.
Chemical nature	: Acid cellulase enzyme
Solubility	: Soluble in cold water.
pH ( 2% Solution )	: $6.0 \pm 1.0$
Stability	: Resist to Hard Water
Storage Stability	: Stable for 3 months. (When stored in a cool & dry place)





### 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 – 2.5% (O.W.F)

pH of treatment liquor : 5 – 5.5

Temperature of treatment liquor: 55 - 60°C

Time of treatment : 30 – 60 min. for exhaust process and  
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.





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### General safety instructions:

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#### 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.

### Contact Information:

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INDIA

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