



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

EMCOZYME – 40

Emcozyme – 40 is a stabilized bacterial α amylase and is used for desizing fabrics and garments. **Emcozyme – 40** is produced by submerged fermentation of a genetically modified Bacillus Microorganism. The optimum dosage of **Emcozyme – 40** will depend on desizing conditions, size composition and type of fabric. **Emcozyme – 40** does not require special addition of calcium salts & is compatible with wetting agents and surfactants normally used in the desizing process.

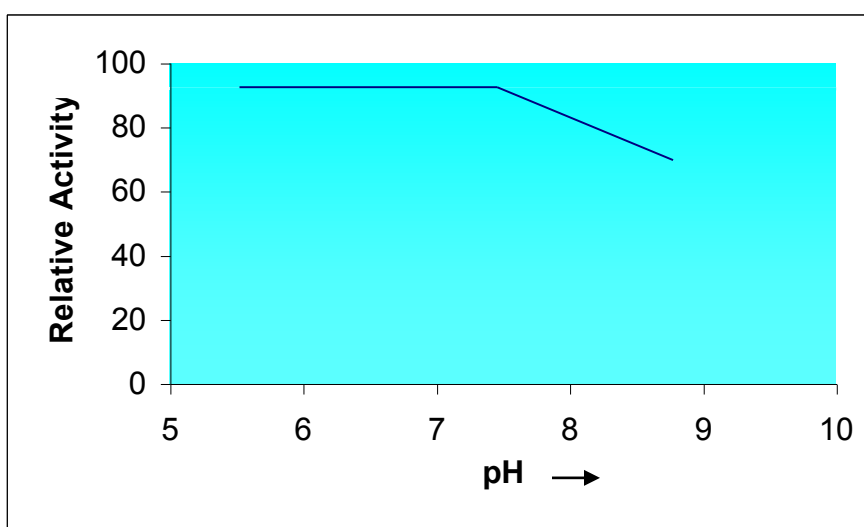
- Can be used at low and high temp ranging from 40° C – 100° C and in the wide pH range of 4.5 – 10.0
- Hydrolyses starch in textile size into soluble dextrans without damaging the textile fibres.
- High stability and efficiency of the enzyme make **EMCOZYME – 40** compatible with a variety of Desizing equipment and procedures.
- **Emcozyme – 40** can easily be dissolved in cold water.
- Salt additions such as NaCl or CaCl₂ are not necessary.

Properties

Appearance	: Pale Yellow Liquid
Odour	: Slight ferment odour
Chemical Nature	: Amylase enzyme.
Solubility	: Soluble
pH (2 % Solution)	: 6.5 – 7.5

Enzyme Property:

pH VALUE





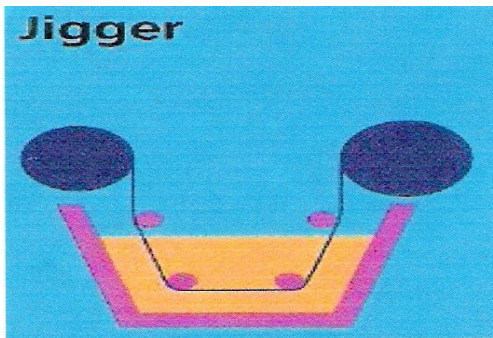
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Method of Application

For Discontinuous Enzymatic Desizing



Advantage

- Higher bath temp
- Higher enzyme activity
- More efficient fabric wetting
- More efficient size gelatinization
- Reduced processing time.

Emcozyme – 40 → 0.3 – 2.0 ml/kg

Instawet – NA → 0.5 – 1.0 ml/kg

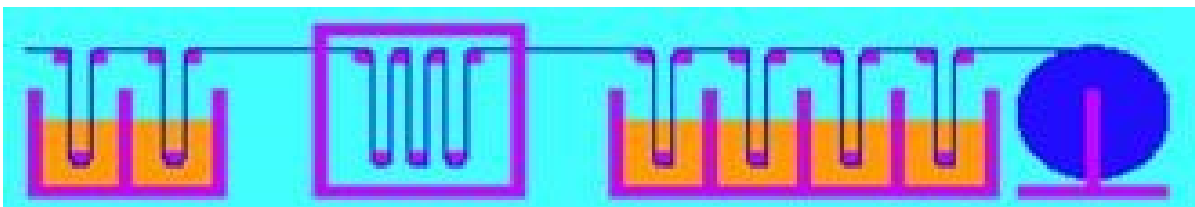
pH → 5.5 – 7.5

MLR → 1:4 to 1:20

Temperature → 80 – 90° C for 30 – 60 minutes

Hot Wash

For Pad – Steam Enzymatic Desizing



Advantage

- Higher impregnation temperature
- More efficient fabric wetting
- Negligible inactivation of enzyme in steam chamber
- Higher enzyme efficiency
- More consistent results

Emcozyme – 40 → 2.0 – 6.0 ml/kg

Instawet – NA → 2.0 – 3.0 ml/kg

contd....



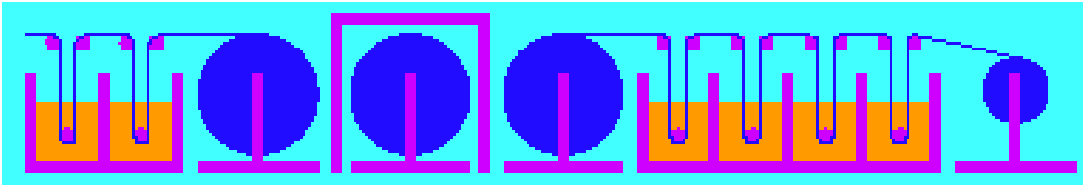
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Liquor pick up → 95 – 100%
Temperature → Cold – 90°C
pH → 5.5 – 7.5
Steaming → 1.0 – 30.0 minutes at 102°C under saturated steam conditions
Hot wash

Pad Roll Enzymatic Desizing



Advantage

- Higher impregnation temperature
- More efficient fabric wetting and higher storage temperature
- Higher enzyme activity & more efficient gelatinization
- Reduced storage time & improved results with difficult fabrics.

Emcozyme – 40 → 2.0 – 4.0 ml/kg
Instawet – NA → 2.0 – 3.0 ml/kg
Liquor pick up → 95 – 100%
pH → 5.5 – 7.5
Temperature → Cold – 90° C
Batching → 60 – 120 minutes @ 85 - 95°C
Hot wash

For Discontinuous enzymatic Desizing of made up apparels

Emcozyme – 40 → 2.0 – 5.0 ML/KG
Instawet – NA → 1.0 – 2.0 ml/kg
MLR → 1:5 – 1:10
Temperature → 60 – 90°C for 10 – 30 minutes
Hot wash

For Pad Batch Enzymatic Desizing

Emcozyme – 40 → 2.0 – 6.0 ml / kg
Emco – NDA → 2.0 – 3.0 ml / kg
Liquor pick up → 95 – 100%
Temperature → Cold – 90°C
Dwell time → 4.0 – 24.0 hours
Hot wash



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Pls. Note :- Colour can vary from batch to batch. Colour intensity is not an indication of enzyme activity

Storage:

Best Before : When stored as recommended, the product is best used within 3 months from the date of delivery.

Storage Temperature : 0 – 25⁰ C (32⁰ F – 77⁰ 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

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.