



TECHNICAL LITERATURE

EMCOZYME-CRS

Emcozyme-CRS is a specially formulated neutral cellulase preparation designed for ready-to-use textile applications such as fabric bio-polishing and garment stone washing under neutral conditions.

Emcozyme- CRS could be effectively used along with catalase, to remove the residual H_2O_2 as well as in one bath Dyeing & Bio-Polishing.





Salient Features:

- **Ready-to-use** under the pH 5.5-8.0, but ideal pH will be 6.5-7.0 applications
- High Strength retention and less fabric weight loss
- Good color retention when applied on dyed fabric
- Good color retention, lower back-staining for the yarn dyed fabrics
- Good anti-pilling effect
- Softer handle with greater drapability
- Unique washing style for the denim finishing in the laundry
- Less chemical consumption
- Good repeatability
- Easy and safe to use.





TECHNICAL LITERATURE

EMCOZYME-CRS

Properties:

Appearance	: Pale Yellow Liquid.
Chemical Nature	: A formulated neutral cellulose enzyme
Solubility	: Soluble in cold water.
pH (2% Solution)	: 5.0 – 6.0
Stability	: Resist to Hard Water
Storage Stability	: Stable for 3 months

(When stored in a cool & dry place)

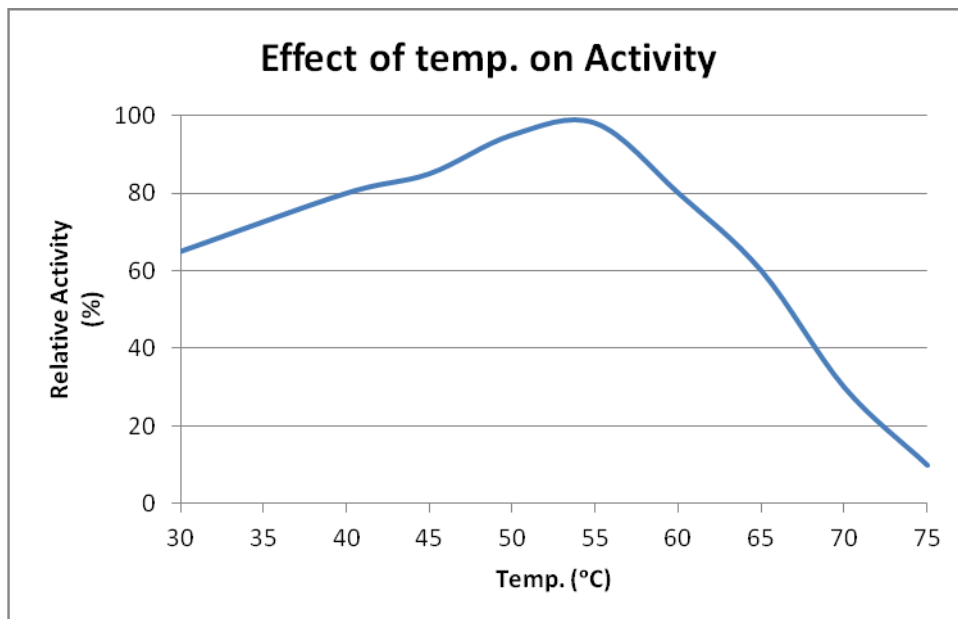
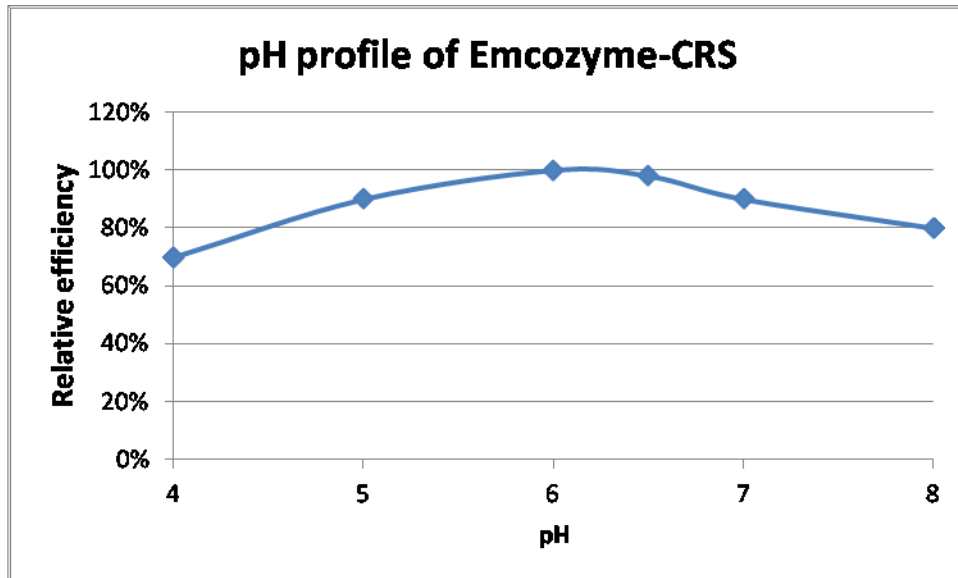




TECHNICAL LITERATURE

EMCOZYME-CRS

Effect of pH and Temp. on the activity of Emcozyme-- CRS :





TECHNICAL LITERATURE

EMCOZYME-CRS

Applications:

Emcozyme - CRS is suitable for bio-polish finishing (i.e. softening, surface fiber removal, anti-pilling) of various types of cellulosic fabrics and garments. Bio-polishing can be arranged either before or after dyeing, or even in the dyeing process depending on the desired effects.

Typical Bio-polishing Conditions

Equipment	: Overflow, winch, jet dyeing machines or laundry washer.
Dosage	: 1.0-2.0% o.w.f.
Liquor ratio	: 1:8 – 1:20
pH	: 5.5 – 8.0, ideal pH will be 6.5-7.0
Temp.	: 40- 60°C, ideal temperature will be 55°C
Treatment time	:30 – 60 min.

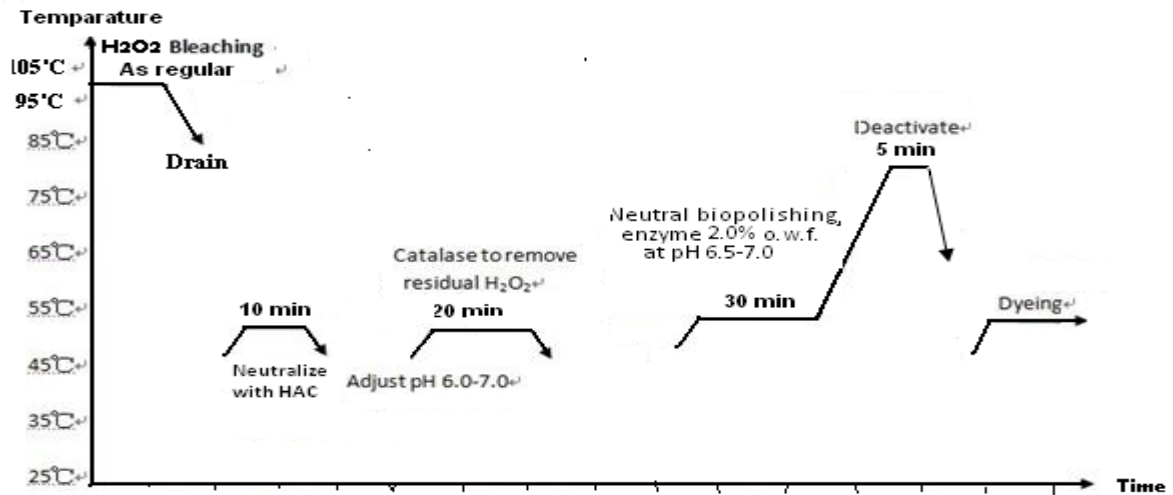




TECHNICAL LITERATURE

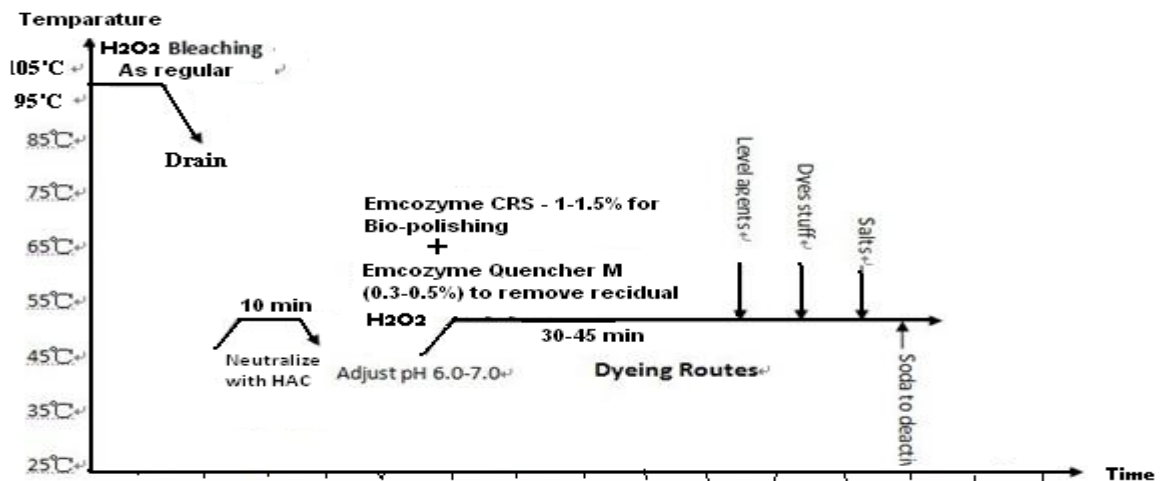
EMCOZYME-CRS

Regular Bio-Polishing route:



Note: By this process, dyeing starts in 5th bath

Typical bio-polishing route using Emcozyme-CRS



Bio-polishing and dyeing with Emcozyme-CRS in one bath

Note: By this process, dyeing starts in 3rd bath. Thus, it saves two baths against regular Process.





TECHNICAL LITERATURE

EMCOZYME-CRS

Enzyme deactivation

All cellulase enzymes should be deactivated after the desired effect is obtained. Insufficient deactivation can result in extended exposure of the garment or fabric to active cellulase. This unintended exposure can cause undesirable strength loss.

Emcozyme-- CRS can be deactivated by one of the following procedures.

Hold the bath at pH \geq 10 for 10 minutes. Sodium carbonate is recommended for pH adjustment or Hold the temperature \geq 80°C for 10 minutes.

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.

Contact Information:

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

E – mail: mirachem@bom5.vsnl.net.in

