



# 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

## EMFIX – NF

---

**EMFIX – NF** is a non formaldehyde dye fixing agent for improving the fastness properties of dyeing and prints produced with direct dyes / reactive dyes on cellulosic fibers.





### Salient Features:

- Free from formaldehyde, hence no contamination of goods, effluent or environment ( oeko – label ).
- Improves the wash fastness and other wet fastness properties of dyeings.
- Prevention of dye migration during drying.
- No impairment of fastness properties during storage.
- Very slight dye – specific shade changes.





### Properties:

Appearance	: Dark Brown Colour Liquid.
Chemical Nature	: Polyethelene Polyamine.
Ionic Nature	: Cationic.
Solubility	: Soluble in Cold Water.
pH ( 2% Solution )	: $6.0 \pm 1.0$
Stability	: Resist to hard water

### Compatibility with

- Nonionic Product : Good.
- Cationic Product : Good.

Storage Stability : Stable for 6 months.  
(When stored in a cool & dry place)





### **Method of Application :**

EMFIX – NF can be applied by exhaust & continuous application. The dyed and printed material produced with reactive or direct dyes, should be washed off properly to avoid the precipitation with traces of auxiliaries

The amount of EMTIX – NF required depends on types of dye and desired shade depth.

The best effects are obtained by applying EMTIX – NF as follows.

### **Exhaust Application :**

Reactive dyes	→	0.5 – 2.0 % EMTIX – NF
Direct dyes	→	1.5 – 3.0 % EMTIX – NF
Treatment time	→	20 – 30 mins.
Temperature	→	40 °C
Bath pH	→	5.5 – 6.5 ( Adjusted with Acetic Acid )

### **Continuous Application :**

Reactive dyes	→	15 – 30 gpl EMTIX – NF
Direct dyes	→	25 – 35 gpl EMTIX – NF
Bath pH	→	5.5 – 6.5 ( Adjusted with Acetic Acid )





### **Open width washing machine :**

Reactive dyes	→	3 – 6 gpl <b>EMFIX – NF</b>
Direct dyes	→	4 – 8 gpl <b>EMFIX – NF</b>
Temperature	→	30 – 40 °C
Treatment time	→	20 – 30 mins.
Bath pH	→	5.5 – 6.5 ( Adjusted with Acetic Acid )

### **After treatment of Prints :**

Exhaustion	→	0.5 – 2.0 % <b>EMFIX – NF</b>
Open width washer	→	2 – 5 gpl <b>EMFIX – NF</b>
Temperature	→	30 – 50 °C
Treatment time	→	20 – 30 mins.
Bath pH	→	5.5 – 6.5 ( Adjusted with Acetic Acid )

### **Pl. Note :**

For achieving the optimum results of dye fixing, it is advisable to use Miracol – BSND as a washing off agent after dyeing.





# 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

## EMFIX – NF

### 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 – 4241 7575 / 2927 1378

Fax: +91 – 22 – 4241 7550

E – mail: [mirachem@bom5.vsnl.net.in](mailto:mirachem@bom5.vsnl.net.in)

URL: [www.mirachemindustries.com](http://www.mirachemindustries.com)

