## PRODUCT LITERATURE

**RETARDER-ACR**

### Product Information

Retardar ACR is a retarding agent for dyeing of acrylic and its blends (fibre, yarn, fabric, garment with cationic dyes). It has high affinity for acrylic fibres. It regulates the strike rate of cationic dyes by competing with dyes for active groups in the fibre. The product is used for leveling of faulty dyeings on acrylics. Acrylic fibres can be dyed by either batch or by continuous process.

### Key Features & Benefits

<table>
<thead>
<tr>
<th>Key Features</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>Retardering action</td>
<td>Good initial retarding action</td>
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<td></td>
<td>levelling of faulty dyeings</td>
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<tr>
<td>Stable to Hard Water</td>
<td>Works even under adverse conditions</td>
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<td>of process water</td>
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<td>Concentrated</td>
<td>Economical</td>
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### General Characteristics

- Physical appearance: Colourless to pale yellow liquid
- Ionic nature: Cationic
- pH of 1% solution: 7 +/- 1
- Miscibility: Miscible with water
- Compatibility: Compatible with cationic and nonionic products
- Stability: Stable to dilute acids and dilute alkalies

### Application

Retarder-ACR* : 0.6-1.2%

is recommended as a retarder in acrylic dyeing. Concentration of Retarder-ACR is inversely proportional to the depth of shade. For fibres with higher rate of dyeing, higher concentration of retarder-ACR is recommended.

* Dosage of Retarder-ACR is based on the concentrated product's strength.
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Dosages of diluted product to be calculated on the basis of solid content.

Instructions For Dilution

Procedure to prepare 25% diluted product of 80% Retarder-ACR

- Take 30.0 parts of Retarder-ACR
- To this, add 70.0 parts of DM water.
- Stir at 200-300 rpm or 40-45 min till Retarder-ACR is completely dissolved.

Preservation: It is recommended to add 0.1% Bronopol (2-Bromo,2-nitropropane, 1,3-diol) or Methyl Paraben (methyl para hydroxy benzoate) as an antimicrobial agent to avoid fungal / microbial growth.

Precautions

Storage : Store in cool, ventilated shed away from heat and direct sunlight. Storage temperature should not exceed 35 deg C. Close lids firmly to avoid contact with air and moisture.

Shelf Life : 9 months from the date of manufacturing, if stored under controlled conditions.

[The above information is given in good faith and is without warranty]