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## DENIMCOL FIX IN 105

<b>Character</b>	Cationic aftertreatment agent
<b>Chemical Character</b>	Polyammonium compound
<b>Appearance</b>	Yellow liquid
<b>Ionic Character</b>	Cationic
<b>pH Value</b>	5.5 – 6.5
<b>Specific Weight at 20 °C</b>	Approx. 1.1
<b>Stabilities</b>	<p>DENIMCOL FIX IN 105 is stable to water hardness, electrolytes and the acid and caustic soda concentrations used in practice. It can be combined very well with non-ionic and cationic products. Together with anionic products precipitations may occur.</p> <p>The product is sensitive to frost to a certain extent. Changes occurring at low temperatures disappear when heating up the product and after thoroughly stirring it.</p>
<b>Storage</b>	If stored properly in closed original containers, it will hold for 12 months.

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### Properties

DENIMCOL FIX IN 105 is a cationic aftertreatment agent used for improving the washing and wet fastnesses of dyeing and printing with reactive and direct dyestuffs on natural and regenerated cellulose fibres.

DENIMCOL FIX IN 105 prevents poor wet fastness caused by dyestuff hydrolysis and thermal cracking in dyeing with reactive dyestuffs.

DENIMCOL FIX IN 105 has the following advantages:

- Improvement of the washing fastnesses on washing with reactive and direct dyestuffs at 40 and 60°C,
- Improvement contact fastness such as water fastness and perspiration fastness,
- Slight influence on the light fastness and color shades depending on the dyestuff,
- No influence on fabric handle and therefore it has no adverse effect on sewability,
- No influence on rewettability
- Formaldehyde-free\*

## Application Technique

### Diluting Instructions

DENIMCOL FIX IN 105 can be diluted with cold water at any ratio.

### Application Fields

The aftertreatment with DENIMCOL FIX IN 105 is always done in a fresh bath. The recipes to be applied to the well-rinsed or well-soaped dyeings and printings are as follows;

#### Exhaust method:

2.0 – 3.0 % DENIMCOL FIX IN 105  
pH 5.0 – 6.0  
20 – 30 min. at 30 – 40 °C

#### Padding method:

5.0 – 20.0 g/l DENIMCOL FIX IN 105  
pH 5.0 – 5.5  
Pick up 80 – 100 %  
Drying 120 - 140 °C

The application amount depends on the technical properties of the padding roller. Preliminary trials are recommended when necessary.

#### Stripping of dyeings aftertreated with DENIMCOL FIX IN 105:

If dyeings are to be redyed or levelled out, DENIMCOL FIX IN 105 must be stripped or masked first.

The following stripping method has proven to be successful:

4.0 - 5.0 g/l CHT-DISPERGATOR SMS  
pH 4.0 (with acetic acid 60 %)  
20 - 30 min. at 98°C  
then rinse thoroughly warm and cold

If the dyeing shall also be stripped, we recommend two-stage method:

#### 1. Stripping of DENIMCOL FIX IN 105

4.0 - 5.0 g/l CHT-DISPERGATOR SMS  
pH 4.0 (with acetic acid 60 %)  
20 - 30 min. at 98°C

#### 2. Stripping of the dyeing

x ml/l caustic soda  
y g/l hydrosulphite or REDULIT F  
3.0 - 5.0 g/l CHT-DISPERGATOR SMS  
20 - 30 min. at 98°C  
then rinse thoroughly warm and cold

\* To us formaldehyde-free means that all recipe components neither contain nor release formaldehyde during production or processing.

**We reserve the right to modify the product and technical leaflet.**

**Our department for applied technique is always at your service for further information and advice.**

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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