KAPPAFIX GG
Agent to improve the wet fastness of dyes and prints with direct and reactive dyestuffs

CHEMICAL-PHYSICAL DATA
Chemical composition: quaternary amine in aqueous solution
Appearance: yellowish liquid
pH-value 20 °C (product): approx. 3.0
Density 20 °C (g/ml): approx. 1.02
Ionic charge: cationic

FUNCTION
KAPPAFIX GG is a fixing agent to improve the wet fastness of dyes and prints with direct and reactive dyestuffs of all types of cellulosic fibres.

- improves the wet fastnesses (e. g. wash fastnesses at 60 °C and 95 °C).
- has low influence on light fastness and shade.
- is free of formaldehyde.
- is suitable for exhaustion and padding processes.
- has no negative effect on the handle of the material to be treated.
- meets the requirements of Ökotex Standard 100.

APPLICATION
KAPPAFIX GG is applied after thorough rinsing and soaping of printed or dyed goods.

Recommended application levels, depending on the shade:

<table>
<thead>
<tr>
<th>Shade</th>
<th>KAPPAFIX GG (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Medium</td>
<td>1.0 - 2.0</td>
</tr>
<tr>
<td>Dark</td>
<td>2.0 - 4.0</td>
</tr>
</tbody>
</table>

treatment time: 20 – 30 minutes
temperature: 40 – 50 °C
pH-value: 5 – 6, adjust with acetic acid

Padding process

<table>
<thead>
<tr>
<th>Shade</th>
<th>KAPPAFIX GG (g/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light</td>
<td>10 - 15</td>
</tr>
<tr>
<td>Medium</td>
<td>15 - 25</td>
</tr>
<tr>
<td>Dark</td>
<td>25 - 40</td>
</tr>
</tbody>
</table>

Stripping process
If off-shade dyes are to be stripped or cross-dyed, KAPPAFIX GG needs to be removed beforehand. The treatment is carried out at 100 °C for 30 minutes.

DILUTION INSTRUCTION
KAPPAFIX GG can be diluted with cold water at any ratio. The product can be added diluted or undiluted to the liquor. Stock dilutions are stable for a long period.

STORAGE
KAPPAFIX GG remains stable for at least 6 months if stored properly and cool in a tightly closed container.