KAPPASOFT SO
Nonionic Softener/Textile Finishing Agent

CHEMICAL-PHYSICAL DATA
Chemical composition: fatty acid derivative
Appearance: yellowish, wax-like flakes
pH-value 20 °C (20%): 3,0 – 6,0
Ionic charge: nonionic

FUNCTION
KAPPASOFT SO is a highly concentrated softener and suitable for all types of fibres.

- gives softness and elasticity.
- is low foaming.
- causes no yellowing of the fibre material even at high temperatures.
- has a good evaporation resistance under condensation conditions.
- is compatible with optical brighteners, dyes and finishing agents.
- is suitable as additive for resin finishing liquors.

APPLICATION
KAPPASOFT SO can be applied as
- finishing agent for all making-ups of textile material and in all application processes.
- softening component in resin finishing.
- crease preventing agent in all bleaching and dyeing processes even under high temperature conditions.

Recommended application levels:

<table>
<thead>
<tr>
<th>Exhaustion process</th>
<th>1 – 3 % KAPPASOFT SO (of stock solution 20 %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment time:</td>
<td>10 – 20 minutes</td>
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<tr>
<td>Temperature:</td>
<td>30 – 40 °C</td>
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<tr>
<td>pH-value:</td>
<td>5 – 6, adjust with acetic acid</td>
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</tbody>
</table>

| Padding process    | 10 – 30 g/l KAPPASOFT SO (of stock solution 20 %) |

DILUTION INSTRUCTION
Preparation of stock solution (20 %):
- Heat water at 90 °C and add stepwise KAPPASOFT SO
- After addition of the product, keep the temperature at 85°C during stirring.
- Stir until the product is completely emulsified. First, it gives a high viscous emulsion.
- Cool down the temperature and continue stirring to prevent the formation of a skin.
- By adding of approx. 0.3 % acetic acid 60 %, the emulsion will become slightly viscous.
- Filter the product in order to eliminate solid particles.

STORAGE
KAPPASOFT SO remains stable for at least 1 year if stored properly in a tightly closed container.