
PAFIX No1

Character	Aftertreatment agent for polyamide dyeings
Chemical character	Condensation product of aromatic sulphonic acids
Appearance	Brown liquid
Ionic character	Anionic
pH Value of a 10 % solution	5.5 – 7.0
Specific weight at 20 °C	1.15
Stabilities	<p>PAFIX No1 is stable to acids, alkalis and hard water in customary concentrations. The usage of nonionic auxiliaries can impair the efficiency of the product.</p> <p>PAFIX No1 is not compatible with cationic products.</p> <p>The product is sensitive to frost to a certain extent; changes occurring at low temperatures disappear after warming up and stirring thoroughly.</p>

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

Properties

PAFIX No1 is an innovative premium aftertreatment agent which scores by its unique properties. The all-round fixing agent is highly suited for standard shades as well as for brilliant PA dyeings with luminous dyes such as BEMACID Luminous Red E-B (Rhodamin type) and BEMACID Luminous Yellow E-B (Flavine type).

PAFIX No1 guarantees an outstanding and lasting balance between good fastness level and high fluorescence. PAFIX No1 is particularly suited for sportswear and functional clothing which have to be washed often.

With PAFIX No1 following advantages can be achieved:

Maximum process safety

- For standard shades as well as for brilliant PA dyeings with fluorescent dyes
- Acid stability and high shearing stability
- Dosable on all dosing units
- Suitable for exhaust procedure
- Suitable for PA tape finishing on continuous dyeing plants
- Outstanding fastness level: Improved fastnesses to washing, perspiration, water and seawater

- Light fastness is not impaired
 - No impact on the fabric handle
 - Resisting agent for WO/PA
 - No influence worth mentioning on the shade resp. on tendency to yellowing, therefore ideal for pastel shades and brilliant colours
 - Thermostable: Subsequent thermofixation or steaming processes have no or hardly any impact on the effect.
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Application Technique

Diluting Instructions

PAFIX No1 can be easily diluted with cold and warm (40 °C) water. The product is diluted with water before it is added to the post-treatment bath and before the diluted acid is added.

Application Fields

The process technology for post-treatment with PAFIX No1 is to be adjusted to the shade. Rinsing has to be done thoroughly after dyeing to remove any residues of cationic/nonionic levelling auxiliaries from the dyeing bath. Otherwise these would impair the fastnesses later on.

Application on discontinuous machines:

Post-treatment standard shades	Post-treatment brilliant, luminous shades
<p>Aftertreatment is done in a fresh bath after dyeing and thorough rinsing. High-speed machines can cause foam to develop when using PAFIX No1. The following method of operation is recommended:</p>	<p>Aftertreatment is done in a fresh bath after dyeing and thorough acid rinsing at pH 5.0 and max. 40 °C. High-speed machines can cause foam to develop when using PAFIX No1. The following method of operation is recommended:</p>
<p>Add the product at 30 - 40 °C 0.2 – 0.5 g/l KOLLASOL CDS Hold for 5 minutes</p> <p>Then dose 2.0 – 4.0 % PAFIX No1</p> <p>hold for 5 minutes dose MEROPAN KP (diluted) for adjusting the pH to 4.0 – 5.0 hold for 5 minutes heat up with 1.5 – 2.0 °C/min to 70 - 80 °C Treatment time: 15 – 20 min Thoroughly rinse warm and cold, finish</p>	<p>Add the product at 30 - 40 °C 0.2 – 0.5 g/l KOLLASOL CDS Hold for 5 minutes</p> <p>Then dose 2.0 – 5.0 % PAFIX No1</p> <p>hold for 5 minutes dose MEROPAN KP (diluted) for adjusting the pH to 5.5* hold for 5 minutes heat up with 1.5 – 2.0 °C/min to 65 °C* Treatment time: 20 – 30 min Thoroughly rinse warm and cold, finish</p> <p>* To minimize luminous shades from colours turning bluish, the pH value shall be only slightly acid (not below pH 5.0) and the fixation temperature shall not be higher than 65 °C.</p>

Application in PA tape finishing on continuous dyeing plants

(Liquor pick-up of approx. 60 – 75):

Prior to a continuous aftertreatment of PA at least one rinsing/washing bath is necessary in order to remove residues of released, non-fixed anionic dyes from the fabric.

Wash compartment	Temperature	Auxiliaries
1	60 °C	1.0 - 2.0 g/l SARABID OL*
2	70 °C	1.0 - 2.0 g/l SARABID OL*
3	80 °C	pH 4.0 - 4.5 mit MEROPAN KP 5.0 - 10.0 g/l PAFIX No1
4	80 °C	pH 4.0 - 4.5 with MEROPAN KP 5.0 - 10.0 g/l PAFIX No1
5	60 °C	Rinsing bath
6	30 °C	Rinsing bath or perhaps double fixation wet-on-wet in the last rinsing compartment with a cationic fixing agent to increase the fastness 5.0 – 10.0 g/l REWIN FSN / REWIN ACP pH 6.0

*For light shades a wash-dispersing agent is not mandatory.

Stripping

If a batch has to be repaired (e.g. shade too dark, redyeing), PAFIX No1 can be stripped with an alkaline treatment:

2.0 g/l soda ash

20 – 30 min at 95 - 98 °C, rinse

In this way most of the product is removed from the fabric. Low amounts of PAFIX No1 residues on the polyamide have no impact on the redyeing process.

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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CHT GERMANY GMBH, P.O. Box 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany

Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, homepage: www.cht.com

CHT TURKEY KİMYA SAN. VE TİC.A.Ş., Akçaburgaz Mah. 3118. Sok. No:2 Esenyurt/İstanbul,

Tel: +90 212 886 79 13, Fax:+90 212 886 93 47, Email: info.turkey@cht.com