

PAFIX SBS

Character	Fixing agent for polyamide dyeings and reserving agent
Chemical Character	Aromatic sulphonate
Appearance	Red-brown liquid
Ionic Character	Anionic
pH Value of a 10 % Solution	2,8 - 3,5
Specific Weight at 20 °C	1,1 g/cm ³
Stabilities	<p>PAFIX SBS is stable to alkalis, acids, and water hardness. A simultaneous application of non-ionic auxiliaries may impair the effectiveness or cause precipitations.</p> <p>PAFIX SBS is not compatible with cationic products.</p> <p>The product is sensitive to frost to a limited extent; changes occurring at low temperatures are reversible on warming and after thorough stirring.</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 SBS is a fixing agent to improve the wet fastness of polyamide dyes with acid and 1:2 metal complex dyes. The handle and colour nuance are not significantly affected by the product. The improvement in fastness is specific to the dye and fibre.

PAFIX SBS is a fixing agent with a low bisphenol S content < 0.1% % (BPS below 1000 ppm) for polyamide dyeing, our innovative solution for the current requirements of many brands and retailers.

With a use of 5.0% PAFIX SBS, the BPS value on the product is <25 ppm.

Application Technique

Diluting Instructions

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

Application Fields

Aftertreatment is done in a fresh bath after dyeing and thorough rinsing to remove any residues of pseudocationic leveling auxiliaries from the dyeing bath as they may otherwise affect the fastness levels later.

For PA/EL a washing with SARABID OL (dispersing/washing agent nonionic) can be done to increase the fastness, by wash off the staining from the elastane.

Afterwashing

1.0 – 20 % SARABID OL

pH 7.0-8.0

Heat up to 40-60 °C

10 min 40°-60°C

Temperature depends fastness level of used dyes

Aftertreatment

Add at 40 °C

2.0 – 4.0 % PAFIX SBS*

Treat for 5 min at 30-40 °C

Heat up to 60 °C

Dose MEROPAN KP (diluted)

for adjusting a pH of 4.0 – 4.5

Treat for 5 min. at 60 °C

Heat up with 1.5 – 2.0 °C/min to

70 - 80 °C

Treatment time: 15 - 30 min

Rinse thoroughly warm (40 °C) and cold, finish.

The absorption capacity of PAFIX SBS depends on the pH value, temperature, and affinity of the polyamide fiber quality. The optimal pH value of the aftertreatment bath is approx. 4.0.

* At a maximum application rate of 5 % PAFIX SBS, the Bisphenol S content is below 25 ppm on the fabric.

For some critical PA shades:
Double fixing by padding process

Double fixation with REWIN ACP by padding is possible in a second step. REWIN ACP is generally applied on dry material. The following quantities serve as general guideline:

2.0 – 3.0 % REWIN ACP (= 20 – 30 g/kg)

Liquor pick-up: 100 %

Amount of product in the padding recipe has to be calculated according to the adjusted liquor pick-up

pH value: 5.0 – 6.0

Drying: 120 - 140 °C

For wet-on-wet application, the residual or incoming moisture must be considered. Depending on the squeezing effect, the liquor should be intensified 1.5 - 3 times to achieve a good aftertreatment dye fixation.

Application in PA tape finishing on continuous dyeing plants

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

Wash compartment	Temperature	Auxiliaries
1	60 °C	pH 7.0 – 8.0, 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 with MEROPAN KP 2.0 – 4.0 % PAFIX SBS (= 20 – 40 g/l) (anionic fixing, depending on pick-up or liquor exchange degree)
4	80 °C	pH 4.0 - 4.5 with MEROPAN KP 2.0 – 4.0 % PAFIX SBS (= 20 – 40 g/l) (anionic fixing, depending on pick-up or liquor exchange degree)
5	60 °C	Rinsing bath
6	30 °C	Rinsing bath

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

Blocking of polyamide fibres when dyeing fibre blends made of polyamide and wool

When dyeing light-coloured to medium shades with 1 : 2 metal complex or acid dyes, PAFIX SBS gives good tone-in-tone effects. The dosage depends on the mixing ratio, the dye quantity as well as the dyeing conditions. PAFIX SBS is added to the dyebath.

Application quantity: 1.0 – 4.0 % PAFIX SBS

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.

Edition: March 2026

CHT R. BEITLICH GMBH

Postfach 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