

SARABID IPF

Characterization	Levelling agent with fibre affinity for streaky dyeing polyamide fibres
Chemical character	Aromatic sulphonate
Appearance	Brown, clear liquid
Ionic Character	Anionic
pH Value of a 10 % Solution	6.0 – 8.4
Specific weight at 20°C	1.20 ± 0.03
Stabilities	<p>SARABID IPF is stable to the usual concentrations of acids, caustic soda, salts and water hardeners.</p> <p>The product is sensitive to frost to a certain extent; changes occurring at low temperatures disappear after warming up and stirring well.</p>
Storage	SARABID IPF can be stored for at least 12 months if stored properly in closed, original containers.

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

SARABID IPF is a levelling auxiliary with fibre affinity which levels out streaky dyeing of PA with acid and 1:2 metal complex dyes.

SARABID IPF is active as anionic retarder. The product slows down and makes the dye pick-up more uniform during the heating up phase. Levelled dyeings result.

SARABID IPF is low foaming and therefore well suited for the application in jet dyeing machines.

The product does not impair or hardly impairs the colour fastnesses and the light fastnesses.

Depending on the kind of PA fibre and the dye class SARABID IPF is applied either alone in the dyebath or in combination with the levelling agent SARABID IPD with dye affinity.

SARABID IPF is applied as levelling agent when dyeing all types of polyamide. It is particularly suited for dyeing PA carpets or for dyeing PA stockings.

Application technique

Diluting Instructions

SARABID IPF can be easily diluted with cold or warm water.

Fields of application

SARABID IPF is always applied on material which tends to streaky dyeing or in the presence of different PA fibre kinetics. When dyeing differential dyeing carpets the product can reduce contrasts to a large extent and in this way a uniform dyeing can be achieved. When dyeing PA stockings, SARABID IPF evens out shade differences very well which would otherwise result because of different fibre affinities and crystalline structures. Well reproducible tone-in-tone dyeings are achieved in this way.

Recommendation for Use

SARABID IPF can be applied at boiling temperature and when dyeing under HT conditions up to 120 °C. When dyeing under HT conditions better results can often be achieved than when dyeing at 98 - 100 °C.

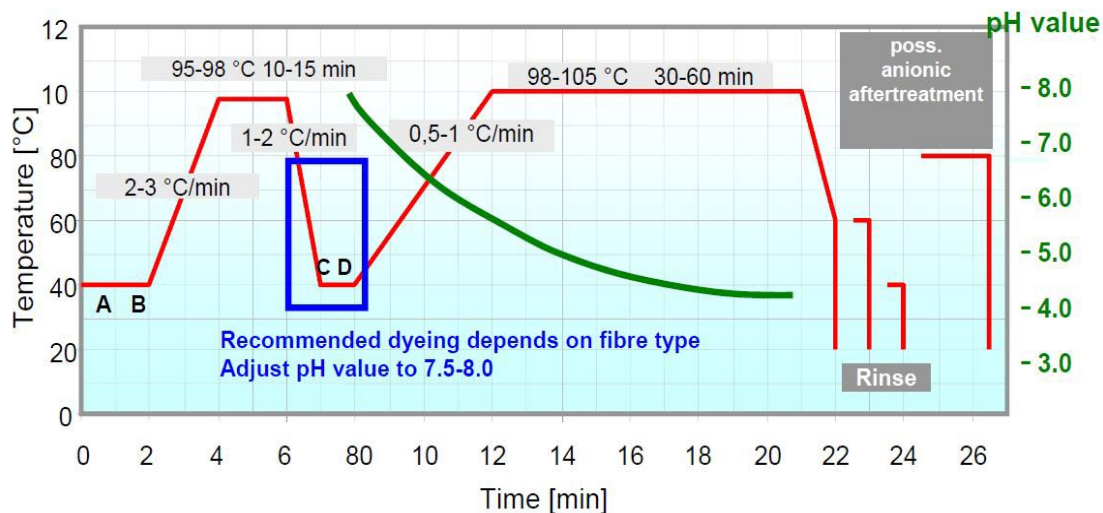
The application quantities depend on the colour depth and affinity difference

0.5 - 3.0 % SARABID IPF (in extreme cases up to 4.0 % for light dyeings)

and the instructions given on colour charts should be followed. (See among others BEMACID/BEMAPLEX® colour chart, BEZEMA).

In case of extreme differences in thread structure we recommend the **prescouring method**. The levelness can be considerably increased by the pretreatment with SARABID IPF at boiling temperature in an acid medium at pH 4.5 - 5.0. See the diagram below for the working conditions.

Standard recipe and process



A	1.0 – 2.0	ml/l	NEUTRACID BO 45 pH 4.5 – 5.5 pH control
B	2.0 – 4.0	%	SARABID IPF depending on the streakiness
C			Cool down and adjust the pH value to 7.5 – 8.0 with soda ash or NaOH
D	x	%	BEMACID - BEMAPLEX® dye
	x	%	SARABID IPD
	y	ml/l	MEROPAN EF 200 resp. NEUTRACID BO 45

Application for carpet dyeing

SARABID IPF is an excellent levelling agent when dyeing PA carpets on the winch beck as well as on the continuous line. SARABID IPF acts as excellent levelling agent on single-colour dyeings.

PA standard carpet exhaust method: single-colour dyeing

Colour depth	PA standard dyeing		
	Light	Medium	Dark
SARABID IPF	2.0 %	1.0 %	0.5 %

When doing differential dyeing of PA carpet goods in the exhaust and continuous method, SARABID IPF controls the differentiation of anionically modified polyamide carpet fibres. The contrast is reduced by the pure anionic activity. Because of the aimed combination of the fibre affine levelling agent SARABID IPF together with the dyestuff affine levelling agent SARABID IPD, any desired differentiation can be made.

The following application amounts only serve as a guideline related to the fabric weight.

When dyeing with the continuous method, the application amounts have to be determined in pretrials.

Dyeing DD carpet qualities only with acid dyeable PA part

SARABID IPD	PA Differential Dyeing
	Depending on colour depth light - dark
Low contrast	0.0 - 0.5 %
Medium contrast	0.5 - 1.5 %
High contrast	1.5 - 2.0 %
SARABID IPF	Depending on colour depth light - dark
Low contrast	2.0 - 0.5 %
Medium contrast	1.0 - 0.5 %
High contrast	0.5 - 0.0 %

PA carpet qualities with alkaline and acid dyeable PA part

SARABID IPD	PA Differential Dyeing
Light colour shades	1.0 %
Medium colour shades	2.0 %
Dark colour shades	3.0 %
SARABID IPF	
Light colour shades	0.2 %
Medium colour shades	0.5 %
Dark colour shades	1.0 %

The above values serve as standard recommendations. The application amounts can be modified depending on the operative conditions, fibre kinetics and requirements to the substrate. Pretrials are recommended at any rate.

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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