

## SARABID IPD

<b>Character</b>	Levelling agent with dyestuff affinity for dyeing polyamide fibres
<b>Chemical structure</b>	Fatty amine polyglycol ether
<b>Appearance Ionic character</b>	Colourless to yellowish liquid Pseudo cationic
<b>pH-Value of a 10 % solution</b>	Approx. 9.0
<b>Specific weight at 20 °C</b>	Approx. 1.04 ± 0.03
<b>Stabilities</b>	SARABID IPD is stable to the usual concentrations of acids, alkalis and salts.  The product is sensitive to frost to a certain extent; changes occurring at low temperatures disappear after warming up and stirring well.
<b>Storage</b>	On proper storage in closed original containers, the product is stable for at least 12 months.

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 IPD is a low-foaming, highly efficient levelling agent for dyeing polyamide and all types of other amino-group fibres with acid and 1:2 metal complex dyestuffs.

SARABID IPD is a levelling auxiliary with affinity to the dyestuff. It controls the absorption speed of dyestuffs in the heating up phase and promotes an even distribution of the dyestuffs during migration.

The product forms addition compounds with anionic dyestuffs which split again during the heating up and migration phase and the result is a good exhaustion.

SARABID IPD does not impair the wet and light fastnesses of the dyeings.

SARABID IPD increases contrasts of continuous dyeings on anionically differentiated polyamide carpet fibres.

Depending on the polyamide fibre and the dye class SARABID IPD is applied in the dyeing bath alone or in combination with the levelling agent SARABID IPF which has an affinity to the fibre.

## Application technique

### Diluting instructions

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

### Recommendation for Use

SARABID IPD can be applied on all machine types and PA articles. When dyeing polyamide with acid or 1:2 metal complex dyestuffs,

0.5 – 3.0 % SARABID IPD\*

are added to the dyeing bath in addition to the usual chemicals.

The amounts of SARABID IPD needed for levelling are proportionally opposite to the dyestuff quantity, see table below.

SARABID IPD in %			
Colour depth	Pale	Medium	Dark
Acid	2.0 - 1.0	1.0 - 0.75	0.5
Metal complex dyes	3.0 - 2.0	2.0 - 1.50	1.0 - 1.75

### Application for carpet dyeing

SARABID IPD is an excellent levelling agent for dyeing PA carpets e.g. on the winch beck or on the continuous line.

#### **PA standard carpet exhaust process with BEMACID® E-TL dyes**

	PA standard dyeing
<b>SARABID IPD</b>	0.5 – 2.0 %

When differentially dyeing PA carpet goods in the exhaust and continuous method, SARABID IPD increases the contrasting and differentiation of anionically modified polyamide carpet fibres.

Due to the special combination of the dyestuff affine levelling agent SARABID IPD together with the fibre affine levelling agent SARABID IPF, every desired differentiation can be made. The following application amounts 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**

	PA Differential Dyeing
<b>SARABID IPD</b>	<b>Depending on colour depth light - dark</b>
Low contrast	0.0 - 0.5 %
Medium contrast	0.5 - 1.5 %
High contrast	1.5 - 2.0 %
<b>SARABID IPF</b>	<b>Depending on colour depth light - dark</b>
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**

	PA Differential Dyeing
<b>SARABID IPD</b>	
Light colour shades	1.0 %
Medium colour shades	2.0 %
Dark colour shades	3.0 %
<b>SARABID IPF</b>	
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 to 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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