



BEMACRON CA

A Advanced

Special disperse dyes for acetate

UNIQUE IDEAS. UNIQUE SOLUTIONS.

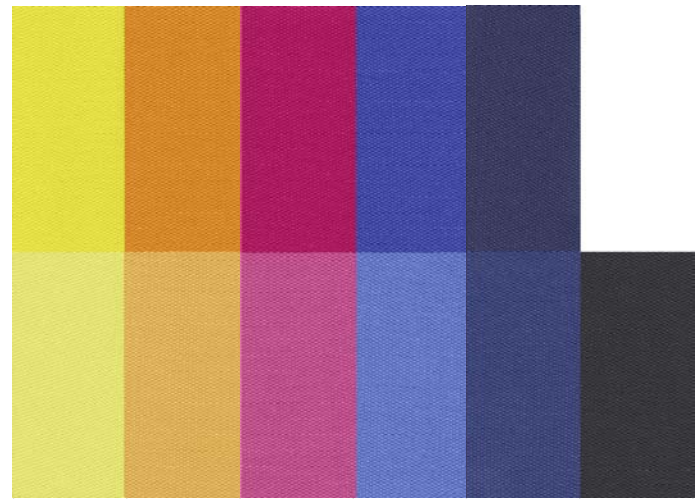


BEMACRON CA

Dyes

Advanced

Improved and adapted ranges for versatile and economical use which meets high demands.



Nitrogen oxide	CC	1 Z 3 Z
Light		1/1 SD 1/12 SD
Washing 40 °C		CC CA CV
Perspiration	acid	CC CA CV
	alkaline	CC CA CV
Water		CC CA CV
AOX¹⁾		%
Öko-tex standard 100²⁾		

Yellow CA 0.3 % 1.2 %	Orange CA 0.4 % 1.7 %	Red CA 0.27 % 1.1 %	Blue CA 0.27 % 1.1 %	Navy CA 1.5 % 3.0 %	Black CA 01 4.0 %
4-5 4-5	4-5 4-5	4-5 4-5	4-5 3-4	4-5 3-4	5 3-4
5 4	7 5	6-7 5	6 4	6 -	6-7 -
4-5 4 5	4-5 4-5 5	4-5 4-5 5	4-5 4-5 5	4-5 3-4 5	4-5 3-4 5
4-5 3-4 4	4-5 4 4-5	4-5 4 4	4-5 4 4-5	4-5 4-5 4-5	5 4 4-5
4-5 3 4	4-5 4-5 4	4-5 3-4 4-5	4-5 4 4-5	4-5 4-5 4-5	4-5 4 4-5
5 3 4	5 4 4-5	5 3-4 4	4-5 4 4	4-5 4 4-5	5 4 4-5
2.1	6.3	2.2	free	1.1	2.4
yes	yes	yes	yes	yes	yes

1. General Information

The BEMACRON CA dyes are a range of coordinated disperse dyes for dyeing 2 1/2 acetate. The good combinability and regular exhaust properties ensure an optimum reproducibility.

The BEMACRON CA dyes have very low thermal and pH sensitivity. Fluctuations ranging from 75 – 85 °C / pH 5 – 6.5 only have a slight influence on the dyeing results. This is an additional important prerequisite for good reproducibility, especially when dyeing on jiggers.

BEMACRON CA dyes have very good levelling and migrating properties with good wet fastness and outstanding fastness to light, as well as fastness to nitrogen oxides.

BEMACRON CA dyes show good reservation properties of viscose in blends.

BEMACRON CA dyes are suitable for exhaust dyeing on jets and jiggers, as well as for pad-jig dyeing.

BEMACRON CA dyes fully meet the requirements of Öko-Tex Standard 100. They do not contain any small-molecular disperse dyes which are traditionally used for dyeing acetate and which are classified as sensitisers.

Because of their colour strength and extraordinary colour build-up, BEMACRON CA dyes ensure a good cost-benefit ratio.

2. Dispersing BEMACRON CA dyes

For dispersing BEMACRON CA dyes, we recommend sprinkling into soft water at 30 – 40 °C and homogenising by stirring.

3. Dyeing instructions

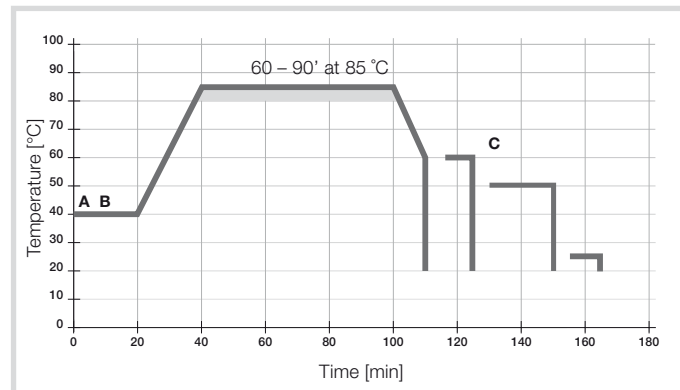
The exhaust and levelling behaviour of BEMACRON CA dyes can be controlled by temperature/time and by dispersing/levelling agents.

The optimum exhaust temperature is 85 °C. Dyeing at 90 °C can only be recommended in exceptional cases, for example on the jigger. Preliminary trials are always recommended.

To achieve the best possible level of fastness, for medium and dark shades we recommend afterwashing with BEZAMOL WS / SARABID DLO conc.

3.1 Exhaust dyeing

3.1.1 Jet



A	0.5 – 2.0	g/l	SARABID TS 300
	1.0 – 2.0	g/l	BIAVIN TCC
	0.5 – 1.0	ml/l	NEUTRACID B045 or MEROPAN KP pH 5.0 – 5.5

B	x	%	BEMACRON CA dyes
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C	1.0	g/l	SARABID DLO conc.
	1.0	g/l	BEZAMOL WS 20 mins. at 50 °C

3.1.2 Jigger

Disperse dyes with low sensitivity to temperature fluctuations, as can occur during dyeing in the jigger, are a prerequisite for level dyeing. We recommend the use of a closed jigger to prevent uneven cooling of the goods, in particular of the selvages.

Dyeing recommendation:

Heat the dye bath containing SARABID TS 300 to 60 °C; set pH 5.0 using NEUTRACID H or MEROPAN KP.

Add the first half of the dye

1 passage at 60 °C

Add the second half of the dye

1 passage at 60 °C

Heat to 70 °C

1 passage at 70 °C

Heat to 80 °C

1 passage at 80 °C

Heat to 85 °C

4 passages at 85 °C

1 passage hot rinse

Afterwashing if necessary

1 passage cold rinse

3.2 Pad jig process

Dye application

x	g/l	BEMACRON CA dyes
1 – 2	g/l	SARABID TS 300

Cold padding

Dyeing

0.5 – 1	g/l	Sarabid TS 300
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Introduce material at 85 °C

4 – 6 passages at 85 °C

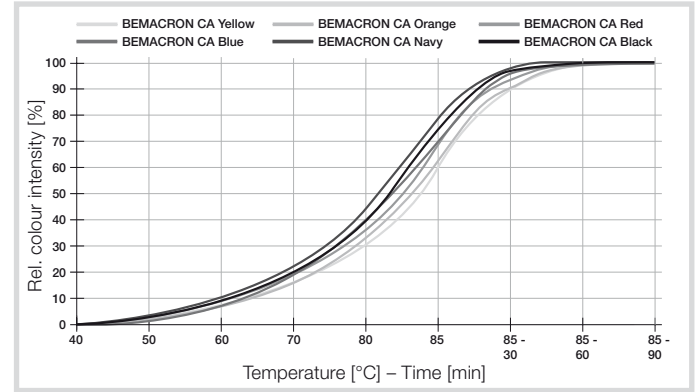
Overflow rinsing, cold

2 passages cold rinse

Afterwashing if necessary

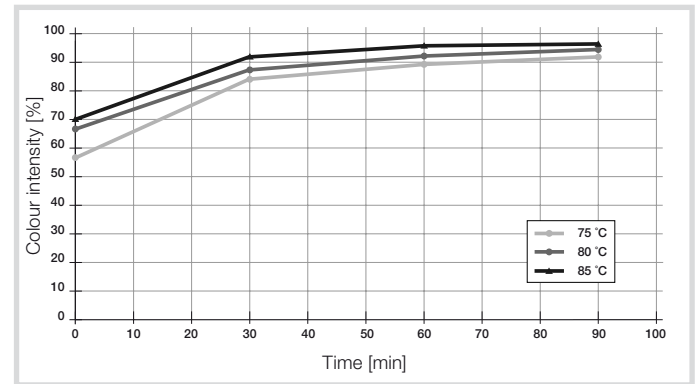
4. Exhaustion curves

BEMACRON CA dyes are very well combinable and have regular exhaust properties (diagram). Optimum reproducibility is guaranteed.



5. Sensitivity to temperature

The BEMACRON CA dyes have a very low sensitivity to temperature. The diagram shows BEMACRON Black CA as an example.



For further information and technical advice please contact our technical department.

Our technical advice imparted verbally, in writing or test reports is given to our best knowledge. It is, however, non-binding. This also applies in connection with any rights of third parties and does not free you from examining the suitability of the supplied product for your intended processes and purposes. The application, use and processing of the products is outside our control and is therefore solely your responsibility.

Fastness information:

The fastness properties of the dyed shades shown on the shade card correspond to 1/1 and 1/4 SD.

The fastness properties stated on the shade card were determined with 1/1 SD dyeing on 2 ½ CA woven fabric. Exceptions are BEMACRON Navy CA as well as BEMACRON Black CA, which were tested at the concentration stated in the shade card. The light fastness was tested with 1/1 and 1/12 SD dyeings. Exceptions are BEMACRON Navy CA as well as BEMACRON Black CA, which were tested with 2/1 SD dyeings.

Fastness to light	DIN EN ISO 105-B02
Fastness to nitrogen oxide	DIN EN ISO 105-G01
Fastness to washing 40 °C	DIN EN ISO 105-C06/A1S
Fastness to water	DIN EN ISO 105-E01
Fastness to perspiration	DIN EN ISO 105-E04

¹⁾ Method of determination: DIN EN 1485.

²⁾ Only refers to the disperse dyes categorised as allergenic in the Öko-tex standard 100 issued in 01/2008, annex 5.

The BEMACRON CA range does not contain any dyes which can be split into amines of the MAC classes III A1 and A2, no dispersing agents containing phenol and no fungicides.

The data contained in this shade card is given to the best of our knowledge and belief.

It does not guarantee specific product properties.

All information is subject to change without notice.



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