

TIMEBOOST PROCESS

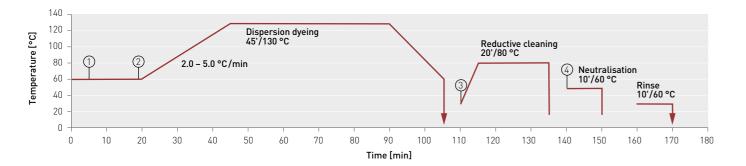
HIGH END levelness with BEMACRON RS dyes and CHT auxiliary system



TIMEBOOST PROCESS

The products of the CHT brand Bezema Colour Solutions provide you with optimal combinations of dyes and auxiliaries which help you achieve safe and perfect results.

PES HT Dyeing 5°C/min - Application recommendation - LR 1:7



1	BIAVIN BPA	1.0 %
	EGASOL UP	1.0 – 2.0 %
	NEUTRACID BO 45 pH 4.0 – 5.0	2.0%
2	CHT-Dispergator XHT-S	1.0 – 2.0 %
	BEMACRON RS dye	х
3	INTENSOL OLI	1.0 – 2.0 %
	NaOH 50 °Bé	2.0 – 4.0 %
	REDULIT GIN	2.0 – 4.0 %
4	NEUTRACID BO 45	0.5 – 1.0 %

CHT-DISPERGATOR XHT-S or CHT-DISPERGATOR XHT-S + EGASOL UP

Savings

- ► No prewashing is needed
- ▶ Reduced process by 30 min

Significantly shortened heating time $% \label{eq:shortened} % \begin{center} \b$

- From 60 °C to 130 °C with 2.0 °C/min (up to 5 °C/min possible depending on fabric and machinery)
- ► Reduced process by 1 h

Shorter migration time

► From 60 min to 45 min or from 45 min to 30 min process shortening by 15 min

Total time saving

▶ 1 h 45 min

Levelling agents for rapid dyeings by reduced heating time on PES and its blends at HT conditions especially on jet, but also on other machines and apparatuses.

CHT-DISPERGATOR XHT-S PES DISPERSING / LEVELLING AGENT

Polyglycol ether derivate n/a, liquid

Application fields

Problem solver for stains in PES dyeings. The stabilisation of the dispersion, particularly at high turbulences, can be enormously improved by CHT-DISPERGATOR XHT-S.

CHT-DISPERGATOR XHT-S can be applied on all common dyeing apparatuses and machines used in practice for dyeing polyester.

CHT-DISPERGATOR XHT-S can be applied for dyeing PES in the automotive field as the light fastness is not affected.

In many cases CHT-DISPERGATOR XHT-S is applied alone as dispersing and levelling agent. A deaerator like KOLLASOL CDS should be added in advance.

Properties

CHT-DISPERGATOR XHT-S does not contain any antifoaming agent. It has a very good dispersing and levelling power. Due to the maximal fine dispersion the dyes have a still higher dissolving speed than conventional products.

The oil dispersion of CHT-DISPERGATOR XHT-S in the dyeing bath is exceptionally high.

EGASOL UP PES LEVELLING AGENT

Fatty acid ethoxylates and aromatic carboxylic acid esters a, liquid

Application fields

Problem solver in case of streakiness on PES dyeings. For PES woven fabrics on jet, critical colours like green, olive, brown. Advantageous in combination with a dispersing agent like CHT-DISPERGATOR XHT-S.

- For heavy articles with a high sqm weight, microfibre article, Trevira CS
- ▶ In the automotive field with quantities of 1-2%
- ► For levelling out of dyeings with 3 % EGASOL UP

Propertie

As EGASOL UP has an affinity to fibres, it has to be separately added to the dyeing bath in emulsified form at $50-60\,^{\circ}\text{C}$ before the dye.

 ${\sf EGASOL}$ UP has an excellent synchronising effect on dispersion dyes.

A very good colour levelness is obtained because of the excellent levelling and migration power of EGASOL UP.



The CHT auxiliary system is bluesign® approved.

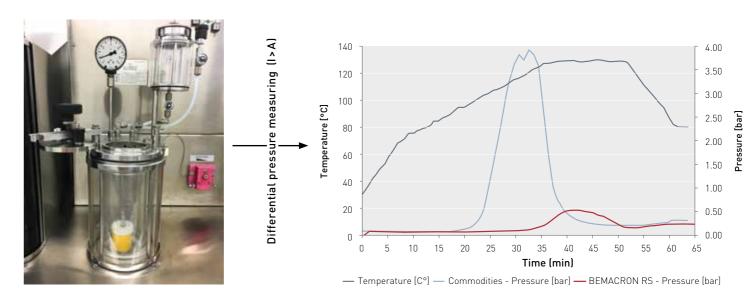
BEMACRON RS PES DISPERSION DYES

Universally applicable and economic rapid-dyeing range with high colour build-up capacity.

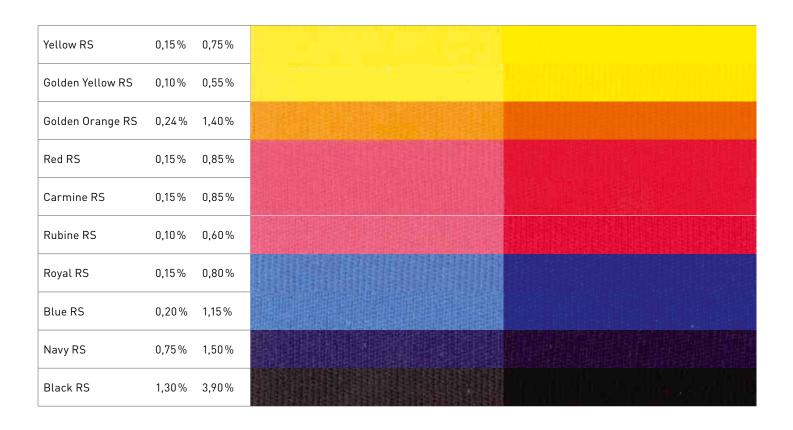
BEMACRON RS = Rapid & Safe

- ► For exhaust and continuous procedures
- ► Excellent dispersion stability, also under most difficult conditions (packaging apparatus & beam)
- ► Excellent "rapid dyeing" properties
- ► All dyes are perfectly combinable
- ► Excellent levelling power
- ► Excellent migration power
- ► Very high reproducibility
- ► Good dry heat fixing fastnesses
- ▶ Dyeing at 120 °C also possible (Diagram)

Verification of the dispersion stability by means of the HPX test



BEMACRON RS DYES



ECONOMIC BEMACRON RS TERNARY

BEMACRON Golden Yellow RS/Carmine RS/Royal RS:

Colour intensive rapid-dyeing dyes with excellent dispersion stability and a very good colour build-up already at a dyeing temperature of 120 °C. Very good levelling dyeing power. High fastnesses to light, washing and chlorine.



The dyes of BEMACRON RS ternary range are bluesign® approved.

